XR-C800/C800W

SERVICE MANUAL

E Model

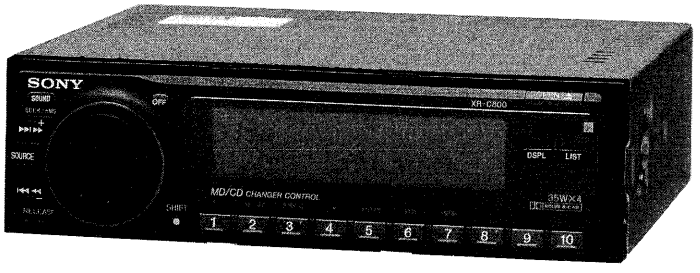


Photo : XR-C800

Model Name Using Similar Mechanism	XR-C900
Tape Transport Mechanism Type	MG-55R1-31

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.06 % (WRMS)
Frequency response	25 – 22,000 Hz ±3 dB
Signal-to-noise ratio	

Cassette type	Dolby B NR	Dolby C NR	Dolby NR off
TYPE II, III, IV	70 dB	74 dB	61 dB
TYPE I	67 dB	71 dB	58 dB

Tuner section

FM

Tuning range	FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	AM tuning interval: 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
Aerial terminal	External aerial connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	28 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connecter)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W × 4 (at 4 ohms)

General

Outputs	Line outputs (3) Power aerial relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 178 mm (w/h/d)
Mounting dimension	Approx. 182 × 53 × 157 mm (w/h/d)
Mass	Approx. 1.8 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Rotary remote RM-X2S (1) Wireless remote RM-X42 (1)

Design and specifications are subject to change without notice.

使用時仕添付資料も参照のこと
Refer to the additional documents.

FM/AM CASSETTE CAR STEREO

SONY®

TABLE OF CONTENTS

1. GENERAL

Location of controls 3
Getting Started 4
Cassette Player 5
Radio 6
Other Functions 7
CD/MD Changer 8
DSP 11
Connections 13

2. DISASSEMBLY

2-1. Front Panel 15
2-2. MD Block 15
2-3. Heat Sink 16
2-4. Panel (Base) 16
2-5. Motor Block 17
2-6. Sub Panel 17
2-7. Main Board 18
2-8. Key Board 18

3. ASSEMBLY OF MECHANISM DECK

3-1. FR Gear Assy 19
3-2. Arm Assy 19
3-3. Head Base Assy 20
3-4. RVS Lever Assy 21
3-5. Midway Pulley (P) 21
3-6. Capstan Motor 22
3-7. Tension Spring 22
3-8. Flywheel 23
3-9. Mode Arm Assy 23
3-10. Pinch Arm Assy 24
3-11. MCU PC Board Sub Assy 24
3-12. Reverse Arm (M) 25
3-13. Rotary Slide Switch 25
3-14. MD Cover 26
3-15. EQ Board 26
3-16. Housing Hanger 27
3-17. Hanger Bracket Sub Assy 27
3-18. Buffer Spring 28
3-19. Suction Arm Assy 28

4. MECHANICAL ADJUSTMENTS 29

5. ELECTRICAL ADJUSTMENTS

Deck Section 29
Tuner Section 30

6. DIAGRAMS

6-1. IC Pin Descriptions 33
6-2. Circuit Boards Location 36
6-3. Block Diagram 37
6-4. Printed Wiring Boards—Main Section— 42
6-5. Schematic Diagram—Main Section— 47
6-6. Printed Wiring Board—Panel Section— 52
6-7. Schematic Diagram—Panel Section— 54

7. EXPLODED VIEWS

7-1. Cover Section 61
7-2. Front Panel Section 62
7-3. Chassis Section 63
7-4. Mechanism Deck Section (1) 64
7-5. Mechanism Deck Section (2) 65
7-6. Mehcanism Deck Section (3) 66
7-7. Mechanism Deck Section (4) 67

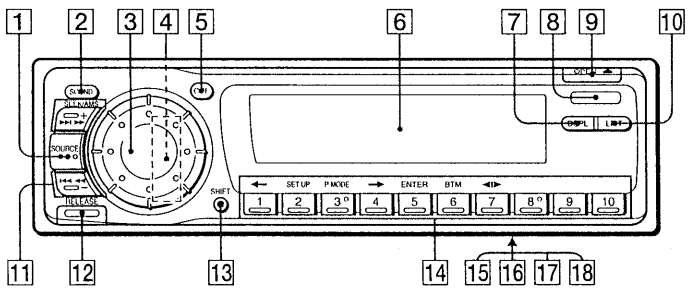
8. ELECTRICAL PARTS LIST 68

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Location of controls



Refer to the pages for details.

1 SOURCE (source select) button 6, 8, 12, 14, 16, 18, 20, 21

2 SOUND button 11, 18, 19, 20, 21

3 Dial (volume/sub output volume/bass/treble/balance/fader control) 6, 9, 11, 16, 18, 19, 20, 21

4 Reset buttons (located on the front side of the unit hidden by the front panel) 4

5 OFF button 4, 6

6 Display window

7 DSPL (display mode change) button 7, 8, 9, 12, 13, 16

8 Receptor for wireless remote

9 OPEN ⏏ button 6

10 LIST button
Disc Memo 16
DSP Custom File 19
List-up 9, 17
Station Memo 9

11 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 7, 8, 13, 14, 15, 17

12 RELEASE button 4, 23

13 SHIFT button
BTM 8
SET UP 6, 11, 12, 21
P.MODE 7, 8, 13, 14, 15, 17, 19

14 During radio reception:
Preset number buttons 8
During CD/MD playback:
Direct disc selection buttons 13

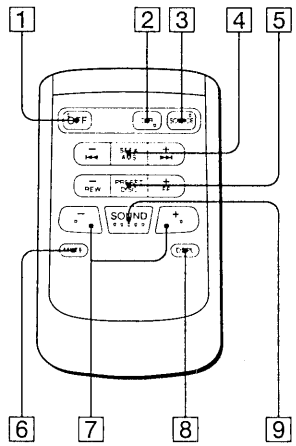
15 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT switch" in the Installation/Connections manual.

16 Frequency select switch (located on the bottom of the unit)
See "Frequency select switch" in the Installation/Connections manual.

17 LINE-OUT/IN SELECT switch (located on the bottom of the unit)
See "LINE-OUT/IN SELECT switch" in the Installation/Connections manual.

18 FM DIVERSITY switch (located on the rear of the unit)
See "FM DIVERSITY switch" in the Installation/Connections manual.

Wireless remote (RM-X42)



Buttons with the same functions as those on this unit.

1 OFF button

3 SOURCE button

4 SEEK/AMS button

5 PRESET/DISC button
You cannot do the manual search and manual tuning with the remote commander.

6 MUTE button

7 ⊖ ⊕ buttons

8 DSPL button

9 SOUND button

Buttons with different function than those on the master unit.

2 DIR button
Changes the playback side of the cassette.

When the POWER SELECT switch is set to the B position, the unit cannot be operated with the wireless remote unless SOURCE on the unit is pressed or a cassette is inserted to activate the unit first.

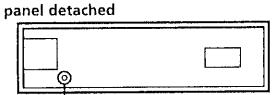
This section is extracted from instruction manual.

Getting Started

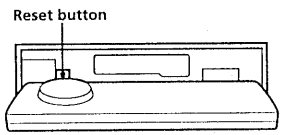
Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object, such as a ballpoint pen.

Front panel detached



Front panel slid down



Note

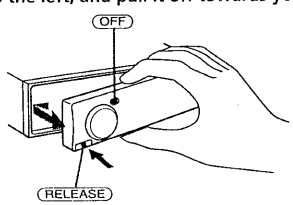
Pressing the reset button will erase the clock and some memorised functions.

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

1 Press (OFF).

2 **Press (RELEASE) to open up the front panel. Then slide the front panel a little to the left, and pull it off towards you.**

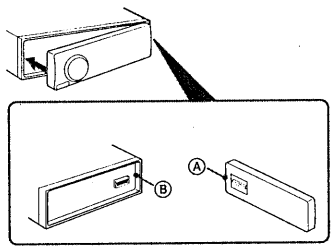


Notes

- *Do not put anything on the inner surface of the front panel.*
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you detach the panel while the unit is still on, the power will turn off automatically to prevent the speakers from being damaged.*
- *When you carry the front panel with you, put it in the supplied front panel case.*

Attaching the front panel

Align part Ⓐ of the front panel to part Ⓑ of the unit as illustrated, and push until it clicks.



Notes

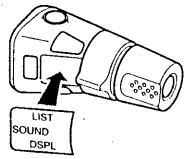
- *Be sure not to attach the front panel upside down.*
- *Do not press the front panel hard against the unit when attaching it. Press it lightly against the unit.*
- *Do not press hard or put excessive pressure on the display windows of the front panel.*
- *Do not expose the front panel to direct sunlight, heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight where there may be a considerable rise in temperature.*

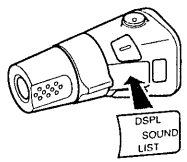
Caution alarm

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch on the bottom of the unit is set to the Ⓐ position).

Preparing the rotary remote

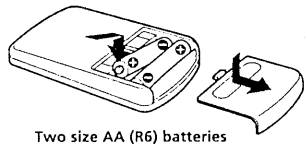
When you mount the rotary remote, attach the label in the illustration below.





Preparing the wireless remote

Installing the batteries



Two size AA (R6) batteries

Battery life is approx. six months although it depends on the way of use.

Notes on batteries

To avoid damage from battery leakage and subsequent corrosion:
— insert the batteries by matching the "+" and "–" on the batteries to the "+" and "–" in the battery compartment
— do not use an old battery with a new one, or different types of batteries together
— remove the batteries when you do not use the unit for a long period of time
— do not charge the batteries.

If any battery leakage occurs, replace the batteries with new ones after cleaning the battery compartment.

Notes on wireless remote

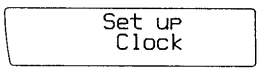
- Do not leave the wireless remote in a location near any heat sources, or in a place subject to direct sunlight (especially on the dashboard in summer etc.).
- When you park your car in direct sunlight, detach the wireless remote and place it in a location such as the glove-box, where it will not be subjected to direct sunlight.

Setting the clock

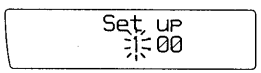
The clock has a 12-hour digital indication.

Example: Set the clock to 10:08

1 Press (SHIFT), then press (2) (SET UP).

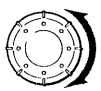


❶ Press (4) (→).



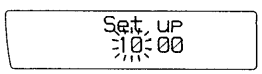
The hour digit flashes.

❷ Set the hour.

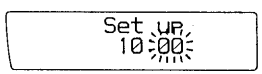


to go back

to go forward

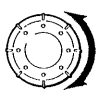


❸ Press (4) (→).



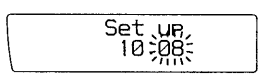
The minute digits flash.

❹ Set the minute.

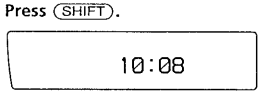


to go back

to go forward



2 Press (SHIFT).



The clock starts.

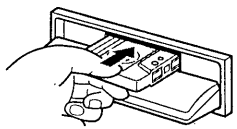
Note

If the POWER SELECT switch on the bottom of the unit is set to the B position, turn the power on first, then set the clock. To turn the power on, press (SOURCE).

Cassette Player

Listening to the tape

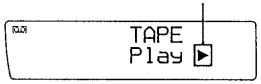
Press (OPEN) and insert the cassette.



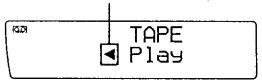
The front panel closes automatically, and playback starts.

If the cassette is already inserted, press (SOURCE) until "TAPE" and "Play ▶" or "◀ Play" appear in the display. Playback starts automatically.

The side facing up is being played.



The side facing down is being played.



Tips

- *To change the tape transport direction, press (7) (◀I▶).*
- *"TAPE" and "Metal" appear in the display when you insert the metal or CrO_2 tape (Auto Metal function).*

To	Press
Stop playback	(OFF)
Eject the cassette	(OPEN)

Fast-winding the tape

During playback, press either side of (SEEK/AMS) for one second.

Fast-forward

Rewind

To start playback during fast-forwarding or rewinding, press (7) (◀I▶).

Locating the beginning of the tracks

— Automatic Music Sensor (AMS)

You can skip up to nine tracks at one time.

During playback, press either side of (SEEK/AMS) momentarily.

To locate the succeeding tracks

To locate the previous tracks

Note

The AMS function may not work when :

- *the blanks between tracks are shorter than four seconds.*
- *there are noises.*
- *there are long sections of low volume or quiet sections.*

Changing the displayed items

Each time you press (DSPL), the item changes as follows:

Tape playback → Clock → Frequency*

** While the ATA function is activated.*

Playing the tape in various modes

You can play the tape in various modes:

- Intro (Intro Scan) lets you play the first 10 seconds of all the tracks.
- Repeat (Repeat Play) repeats the current track.
- NR (Dolby NR) lets you select the Dolby* NR B or C system.
- ATA (Automatic Tuner Activation) turns on the tuner automatically while fast-winding the tape.
- B.Skip (Blank Skip) skips blanks longer than eight seconds.

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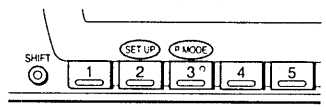
1 Press (SHIFT).

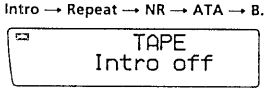
Every time you press (SHIFT), only the items you can select light up.



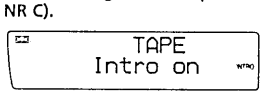
2 Press (3) (P.MODE), repeatedly until the desired play mode appears.

Each time you press (3), the item changes as follows:

Intro → Repeat → NR → ATA → B.Skip



3 Press (4) (→) to select the desired play mode setting (for example: on, NR B, or NR C).



Playback starts.

To go back to the normal playback mode, select "off" in step 3 above.

Radio

Memorising stations automatically

— Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorises them in the order of their frequencies. You can store up to 10 stations on each band (FM 1, FM 2, and AM).

Caution
When tuning in the station while driving, use Best Tuning Memory to prevent accidents.

1 **Press (SOURCE) repeatedly to select the desired band (FM 1, FM 2, and AM).**

2 **Press (SHIFT), then press (6) (BTM).**
The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds and the setting is stored.

Notes
- *The unit does not store stations with weak signals. If only a few stations are received, some number buttons remain empty.*
- *When a preset number is indicated in the display, the unit starts storing stations from the one currently displayed.*

Memorising only the desired stations

You can store up to 10 stations on each band (20 for FM 1 and FM 2, 10 for AM) in the order of your choice.

1 **Press (SOURCE) repeatedly to select the desired band.**

2 **Press either side of (SEEK/AMS) to tune in the station that you want to store on the number button.**

3 **Keep the desired number button ((1) to (10)) pressed until "MEM" appears in the display.**

The number button indication appears in the display.

Note
If you try to store another station on the same number button, the previously stored station will be erased.

Receiving the memorised stations

1 **Press (SOURCE) repeatedly to select the desired band.**

2 **Press the number button ((1) to (10)) momentarily, where the desired station is stored.**

If you cannot tune in a preset station

Press either side of (SEEK/AMS) momentarily to search for the station (automatic tuning).
Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

Note
If the automatic tuning stops too frequently, press (SHIFT), then press (3) (P.MODE) repeatedly until "Local off" (local seek mode) is displayed. Then press (4) (→) to select "Local on."
Only the stations with relatively strong signals will be tuned in.

Tip
If you know the frequency of the station you want to listen to, press and hold down either side of (SEEK/AMS) for a few seconds until the desired frequency appears (manual tuning).

If FM stereo reception is poor

— Monaural Mode

1 **Press (SHIFT), then press (3) (P.MODE) repeatedly until "Mono" appears.**

2 **Press (4) (→) repeatedly until "Mono on" appears.**
The sound improves, but becomes monaural ("STEREO" disappears).

To go back to the normal mode, select "Mono off" in step 2 above.

Changing the displayed items

Each time you press (DSPL), the item changes as follows:

Station name ⟷ Clock

Storing the station names

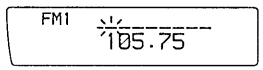
— Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can store up to eight characters for a station.

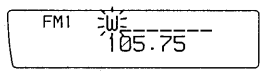
Storing the station names

1 **Tune in a station whose name you want to store.**

2 **Press (LIST) for two seconds.**

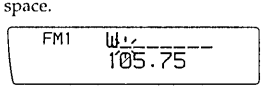


3 **Enter the characters.**
❶ **Rotate the dial in a clockwise direction to select the desired characters.**
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you rotate the dial in a counterclockwise direction, the characters appear in the reverse order. If you want to put a blank space between characters, select "_" (under-bar).

❷ **Press (4) (→) after locating the desired character.**
The flashing cursor moves to the next space.



If you press (1) (←), the flashing cursor moves to the left.

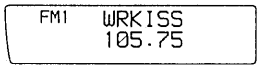
❸ **Repeat steps ❶ and ❷ to enter the entire name.**

4 **To return to the normal radio reception, press (LIST) for two seconds.**

Tip
To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the station name

Press (DSPL) during radio reception.



Each time you press (DSPL), the item changes as follows:

Station name* ⟷ Clock

** If the station name is not stored, "NO Name" appears in the display for one second.*

Erasing the station name

1 **Tune in any station and press (LIST) for two seconds.**

2 **Press (DSPL) for two seconds.**
"Delete" and the station name appear in the display.

3 **Rotate the dial to select the name that you want to erase.**

4 **Press (5) (ENTER) for two seconds.**
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.

5 **Press (LIST) for two seconds.**
The unit returns to the normal radio reception mode.

Locating a station by frequency and name — List-up

You can search for the memorised stations in the display.

1 **Press (LIST) momentarily.**
The frequency or the name assigned to the station currently receiving appears in the display.

2 **Press (LIST) repeatedly until you find the desired station.**

3 **Press (5) (ENTER) to tune in the desired station.**

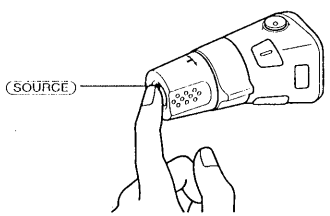
Note
Once the station name or frequency has been displayed for five seconds, the display goes back to its normal mode.
To go back to the normal mode, press (DSPL).

Other Functions

Using the rotary remote

The rotary remote works by pressing buttons and/or rotating controls.
You can control the optional CD or MD changer with the rotary remote.

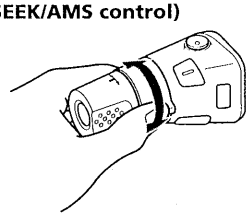
By pressing the button (the SOURCE button)



Each time you press (SOURCE), the source changes as follows:
FM1 → FM2 → AM → CD1 → CD2 → MD1 → MD2 → TAPE

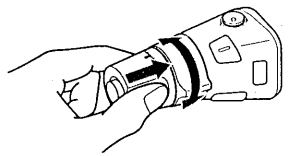
Tip
You can turn on this unit by pressing (SOURCE) on the rotary remote.

By rotating the control (the SEEK/AMS control)



Rotate the control momentarily and release it to:
- Locate the beginning of the tracks on the tape. Rotate and hold the control, and release it to fast-wind the tape. To playback, rotate and hold the control again, and release it.
- Locate a specific track on a disc. Rotate and hold the control to locate the specific point in a track, then release it to start playback.
- Tune in the stations automatically. Rotate and hold the control to tune in the specific station.

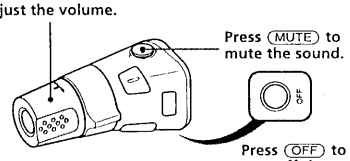
By rotating the control while pushing (the PRESET/DISC control)

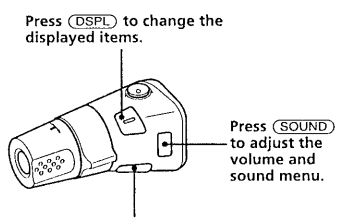


Rotate the control while pushing it to:
- Receive the stations memorised on the preset buttons.
- Change the disc.

Other operations

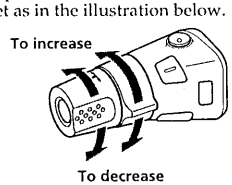
Rotate the VOL control to adjust the volume.



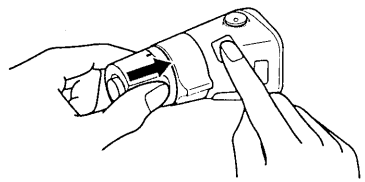

Press (DSPL) to change the displayed items.
Press (SOUND) to adjust the volume and sound menu.
Press (LIST) to display memorised names.

Changing the operative direction

The operative direction of controls is factory preset as in the illustration below.



If you need to mount the rotary remote on the right of the steering column, you can reverse the operative direction of the controls.



Press (DSPL) two seconds while pushing the VOL control.

Tip
You can control the operative direction of controls with the unit.

Adjusting the sound characteristics

You can adjust the sub output volume, bass, treble, balance and fader.
Each source can store the sub output, bass and treble level respectively.

1 Select the item you want to adjust by pressing (SOUND) repeatedly.

VOL (volume) → SUB (sub output volume) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)

2 Adjust the selected item by rotating the dial.
Adjust within three seconds after selecting. (After three seconds, the dial works as volume control dial.)

Changing the sound and display settings

You can set:
- Amber/Green to change the illumination colour to amber or green.
- Beep to turn on or off the beeps.
- Dimmer to change the brightness of the display.
  — Select "Auto" to dim the display only when you turn the lights on.
  — Select "on" to dim the display.
- Loud (Loudness) to enjoy bass and treble even at low volume. Bass and treble will be reinforced. When you connect the optional XDP-U50D, the loudness function will not work.
- RM (Rotary Remote) to change the operative direction of the controls of the rotary remote.
  — Select "norm" to use the rotary remote as the factory preset position.
  — Select "rev" when you mount the rotary remote on the right of the steering column.
- Angle to change the angle of the front panel.
  — Select "1" to make the front panel angle at about 80 degrees.
  — Select "2" to make the front panel angle at about 70 degrees.
- Contrast to adjust the contrast if the indications in the display are not recognizable because of the unit's installed position.

1 Press (SHIFT), then press (2) (SET UP).

2 Press (2) (SET UP) repeatedly until the desired setting mode appears.

Each time you press (2) (SET UP), the item changes as follows:
Clock → Amber/Green → Beep → Dimmer → Loud → RM → Angle → Contrast

3 Press (4) (→) to select the desired setting (for example: "on" or "off").
At "Contrast" setting, pressing (4) (→) makes the contrast higher, and pressing (1) (←) makes the contrast lower.

4 Press (SHIFT).
When the mode setting is complete, the normal playback mode appears.

Turning off the display

You can turn off the display. Even when you turn off the display, the buttons keep on illuminating. While the display is turned off, pressing any of the buttons turns the display on for five seconds.

1 Press (SHIFT), then press ② (SET UP) for two seconds.

2 Press ④ (→) to select "off."

3 Press ② (SET UP) for two seconds.
The normal playback mode appears.

To turn on the display, select "on" in step 2 above.

EN

With Optional Equipment

CD/MD Changer

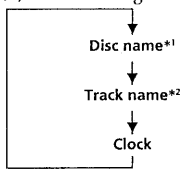
Playing a CD or MD

Press (SOURCE) until the desired changer appears.
CD/MD playback starts.

When a CD or MD changer is connected, all the tracks play from the beginning.

Changing the displayed items

Each time you press (DSPL) during CD/MD playback, the item changes as follows:



*1 *If you have not labeled the CD, "NO Name" appears in the display. If there is no prerecorded name for an MD, "NO D.Name" appears in the display.*

*2 *If the track name of an MD is not prerecorded, "NO T.Name" appears in the display.*

Tip

If the name of the MD is too long, you can scroll it across the display by pressing (SHIFT), then ① (←).

Automatically scrolling a disc name — Auto Scroll

The Auto Scroll function automatically scrolls the disc or track name of an MD when you press (DSPL) and the name length exceeds ten characters.

1 Press (SHIFT), then press ② (SET UP) repeatedly until "A.Scrl" appears.

2 Press ④ (→) to select "A.Scrl on."

To cancel Auto Scroll, select "A.Scrl off" in step 2 above.

Displaying the recording date of the currently selected MD

Press (DSPL) for two seconds during MD playback.
The recording date of the track is displayed for about three seconds.

Locating a specific track — Automatic Music Sensor (AMS)

During playback, press either side of (SEEK/AMS) once for each track you want to skip.

To locate succeeding tracks

To locate previous tracks

Locating a specific point in a track — Manual Search

During playback, press and hold either side of (SEEK/AMS). Release the button when you have found the desired point.

To search forward

To search backward

Locating a disc by disc number — Direct Disc Selection

Press the number button that corresponds with the desired disc number.
The desired disc in the currently selected changer begins playback.

Scanning the tracks

— Intro Scan

You can play the first 10 seconds of all the tracks on the currently selected disc.

1 During playback, press (SHIFT), then press ③ (P.MODE) repeatedly until "Intro" appears.

2 Press ④ (→) repeatedly until "Intro on" appears.
Intro Scan starts.

To go back to the normal playback mode, select "Intro off" in step 2 above.

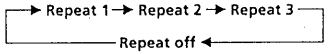
Playing tracks repeatedly

— Repeat Play

You can select:
- Rep 1 to repeat a track.
- Rep 2 to repeat a disc.
- Rep 3 to repeat all the discs in the current changer when you connected two changers or more.

1 During playback, press (SHIFT), then press ③ (P.MODE) repeatedly until "Repeat" appears.

2 Press ④ (→) repeatedly until the desired setting appears.



Repeat play starts.

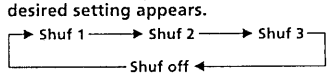
To go back to the normal playback mode, select "Repeat off" in step 2 above.

Playing tracks in random order — Shuffle Play

You can select:
- Shuf 1 to play the tracks on the current disc in a random order.
- Shuf 2 to play the tracks in the current changer in a random order.
- Shuf 3 to play all the tracks in a random order when you connected two changers or more.

1 During playback, press (SHIFT), then press ③ (P.MODE) repeatedly until "Shuf" appears.

2 Press ④ (→) repeatedly until the desired setting appears.



Shuffle play starts.

To go back to the normal playback mode, select "Shuf off" in step 2 above.

EN

Creating a programme

— Programme Memory (CD/MD changer with programme memory function)

You can play the tracks in the order you want by making your own programme. You can make two programmes: Programme 1 and Programme 2. You can select up to 12 tracks in each programme. You can store the programmes in memory.

1 Press (SHIFT), then press ③ (P.MODE) for two seconds.

Programme edit mode

"P1" shows Programme 1 is selected.

If you have labeled the disc, the bank edit mode appears. Press ③ (P.MODE) to display "PGM edit" above.

To select Programme 2, press ④ (→) repeatedly until "P2" appears.

2 Select the track you want.

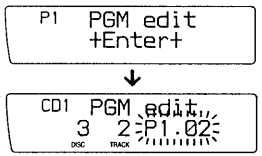
❶ Press (SOURCE) repeatedly to select the changer.

❷ Press (SHIFT), then press the number button to select the disc.

❸ Press (SHIFT).

❹ Press either side of (SEEK/AMS) to select the track.

3 Press ⑤ (ENTER) momentarily.



4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish entering tracks, press ③ (P.MODE) for two seconds.

Notes

- *"*Wait*" appears in the display while the unit is reading the data, or when a disc has not been put into the unit.*
- *"*Mem full*" appears in the display when you try to enter more than 12 tracks into a programme at one time.*

Playing the stored programme

Changing the disc order in the changer will not affect programme memory play.

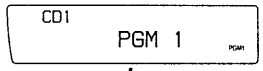
You can select:
- PGM 1 to play Programme 1.
- PGM 2 to play Programme 2.
- PGM 1+2 to play Programmes 1 and 2.

1 Press (SHIFT).

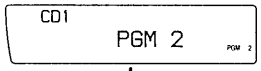
2 Press ③ (P.MODE) repeatedly until "PGM" appears.

3 Press ④ (→) repeatedly until the desired programme appears.
Programme play starts.

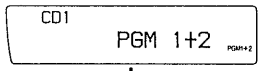
Programme 1 Playback



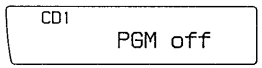
Programme 2 Playback



Programmes 1 and 2 Playback



Normal Playback



To go back to the normal playback mode, select "PGM off" in step 3 above.

Notes

- *If you press the number button during programme memory play, programme memory play is interrupted, and playback of the selected disc starts.*
- *"NO Data" appears in the display if no track is stored in the programme.*
- *If a track stored into the programme memory is not in the disc magazine, the track will be skipped.*
- *When the disc magazine contains not a single track stored into the programme memory, or when the programme information has not been loaded yet, "Not Ready" appears.*

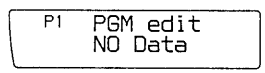
Erasing the entire programme

1 Press (SHIFT), then press ③ (P.MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ③ (P.MODE) to display "PGM edit."

2 Press ① (←) repeatedly until "DEL" appears.

To erase Programme 2, press ④ (→) repeatedly until "PGM 2" appears.

3 Press ⑤ (ENTER) for two seconds.



The entire programme is erased.

4 When you finish erasing programmes, press ③ (P.MODE) for two seconds.

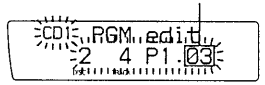
Adding tracks to the programme

1 Press (SHIFT), then press ③ (P.MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ③ (P.MODE) to display "PGM edit."

To select Programme 2, press ④ (→) repeatedly until "P 2" appears.

2 Press ① (←) or ④ (→) to select the track slot number where you want to insert a track.

Track slot number



3 Press either side of (SEEK/AMS) to select the track you want to insert.

4 Press ⑤ (ENTER) momentarily to enter the track.
The current track in that slot number and the succeeding tracks shift down.
To continue inserting tracks, repeat steps 2 through 4.

Note

*Once all 12 slots have been filled, "*Mem full*" appears in the display, and you cannot insert tracks.*

5 When you finish inserting tracks, press ③ (P.MODE) for two seconds.

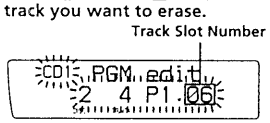
Erasing the tracks in the programme

1 Press (SHIFT), then press ③ (P.MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ③ (P.MODE) to display "PGM edit."

To select Programme 2, press ④ (→) repeatedly until "P2" appears.

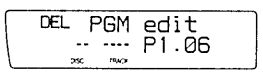
2 Press ① (←) or ④ (→) to select the track you want to erase.

Track Slot Number



The track currently registered in slot 6 of Programme 1.

3 Press ⑤ (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.



4 To continue erasing tracks, repeat steps 2 and 3.

5 When you finish erasing tracks, press ③ (P.MODE) for two seconds.

Labeling a CD

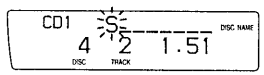
— Disc Memo
(CD changer with custom file function)

You can label each disc with a personalized name. You can enter up to eight characters for a disc. If you label a CD, you can locate a disc by name and select the specific tracks for playback (page 17).

1 Play the CD and press (LIST) for two seconds.

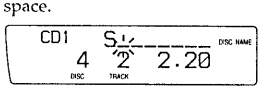
2 Enter the characters.

❶ Rotate the dial in a clockwise direction to select the desired characters.
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you rotate the dial in a counterclockwise direction, the characters appear in the reverse order. If you want to put a blank space between characters, select "_" (under-bar).

❷ Press (4) (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press (1) (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

3 To return to the normal CD playback mode, press (LIST) for two seconds.

Tip
To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the disc memo

Press (DSPL) during CD playback.

Each time you press (DSPL) during CD playback, the item changes as follows:
Disc memo ⟷ Clock

Erasing the disc memo

1 Press (SOURCE) to select the CD changer.

2 Press (LIST) for two seconds.

3 Press (DSPL) for two seconds.
"Delete" and the disc memo appear in the display.

4 Rotate the dial to select the name that you want to erase.

5 Press (5) (ENTER) for two seconds.
The name is erased.
Repeat steps 4 and 5 if you want to erase other names.

6 Press (LIST) for two seconds.
The unit returns to the normal CD playback mode.

Locating a disc by name

— List-up (CD changer with custom file function or MD changer)

You can use this function for the discs that have been assigned a custom name. For more information on disc names, refer to "Labeling a CD" (page 16).

1 Press (LIST) momentarily.
The names assigned to the disc currently playing and the next disc to be played appear in the display. The name assigned to currently playing disc is flashing.

2 Press (LIST) repeatedly until you find the desired disc.

3 Press (5) (ENTER) to play back the disc.

Notes
- *To go back the display, press (DSPL). Once a disc name has been displayed for five seconds, the display goes back to its normal playback mode.*
- *The track names are not displayed during MD playback.*
- *If there are no discs in the magazine, "NO Disc" appears in the display.*
- *If a disc has not been assigned a custom file, "********" appears in the display.*
- *If the disc information has not been read by the unit, "?" appears in the display. To load the disc, first press the number button, then choose the disc that has not been loaded.*
- *The information appears only in upper cases. There are also some letters which cannot be displayed (during MD playback).*

Selecting the specific tracks for playback

— Bank
(CD changer with custom file function)

If you label the disc, you can set the unit to skip tracks and play only the tracks you want.

1 Start playing the disc and press (SHIFT). Then press (3) (P.MODE) for two seconds.
Bank edit mode

Note
If you have not labeled the disc, the bank edit mode does not appear and the programme edit mode appears. To go back to the normal playback mode, press (3) (P.MODE) for two seconds.

2 Press either side of (SEEK/AMS) to select the track number you want to skip and press (5) (ENTER).

The indication changes from "Play" to "Skip." If you want to return to "Play," press (5) (ENTER) again.

3 Repeat step 2 to set the "Play" or "Skip" mode on all the tracks.

4 Press (3) (P.MODE) for two seconds.

Notes
- *You can set the "Play" and "Skip" mode on up to 24 tracks.*
- *You cannot set the "Skip" mode on all the tracks.*

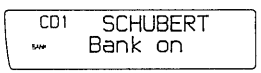
Playing the specific tracks only

You can select:
- Bank on to play the tracks with the "Play" setting.
- Bank inv (inverse) to play the tracks with the "Skip" setting.

1 During playback, press (SHIFT), then press (3) (P.MODE) repeatedly until "Bank" appears.

2 Press (4) (→) repeatedly until the desired setting appears.

→ Bank on → Bank inv → Bank off →



Playback starts from the track following the current one.

To go back to the normal playing mode, select "Bank off" in step 2 above.

DSP

With the optional XDP-U50D connected

The optional XDP-U50D lets you add some effects to the sound field of the currently selected source.
When you connect the optional XDP-U50D, the loudness function of this unit does not work.

Selecting a surround menu

You can select a desired surround menu to best fit the source audio. The following menu can simulate different sound fields and enhance the sound so that you can feel as if you are in a live concert.

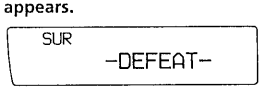
EN

Surround menu

HALL	Concert hall
JAZZ	Jazz club
DISCO	Disco with thick walls
THEATER	Movie theatre
PARK	Big open space
LIVE	Live concert
OPERA	Opera house
CHURCH	Church/chapel with a lot of reverberation
STADIUM	Open-air concert in a stadium
CELLAR	Cellar with a lot of reverberation
DEFEAT	Normal sound without any DSP effects

1 Press (SOURCE) to select a source (radio, tape, CD, or MD).

2 Press (SOUND) repeatedly until "SUR" appears.



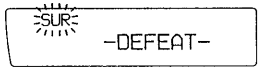
3 Rotate the dial to select the desired surround menu.
The surround menu appears in the order shown above.

After three seconds, the display goes back to the normal playback mode.

Adjusting the effect level

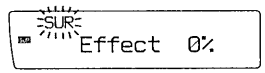
1 Press (SOURCE) to select a source (radio, tape, CD, or MD).

2 Press (SOUND) for two seconds.

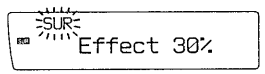


3 Rotate the dial to select the desired surround menu.

4 Press (4) (→).



5 Rotate the dial to adjust the level.
You can adjust the level from 0 to 100%. Increase the level to enjoy more enhanced effects.



6 Press (SOUND) for two seconds.

Storing the surround effect onto the CDs

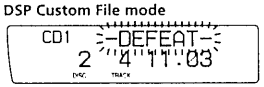
— Digital Signal Processor (DSP) Custom File (CD changer with custom file function)

Once you have registered the desired surround menu onto the discs, you can enjoy the same surround menu every time you play them. (Only when you have labeled the disc by the Custom File function.)

1 Press (LIST) for two seconds.

2 Press (LIST) until the surround menu appears.

DSP Custom File mode



3 Rotate the dial to select the desired surround menu.

4 Press (LIST) for two seconds.
When the effect setting complete, the display goes back to the normal playback mode.

Playing the disc with the stored surround menu

1 Press (SHIFT), then press (3) (P.MODE) repeatedly until "D.File" appears.

2 Press (4) (→) to select "D.File on."
After five seconds, the display goes back to the normal playback mode.

To cancel to play the disc with stored surround menu, select "D.File off" in step 2 above.

Changing the stored surround effect

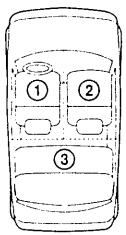
Play the disc whose surround mode you want to change, and follow the steps of "Storing the surround effect onto CDs."

Erasing the stored surround effect

Select "DEFEAT" in step 3 of "Storing the surround effect onto CDs."

Selecting the listening position

You can set the time for the sound to reach the listeners from the speakers.
The unit can simulate a natural sound field so that you can feel as if you are in the centre of the sound field wherever you sit in the car.

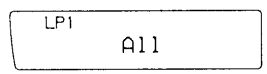


Display window	Centre of sound field
LP1 All	Normal setting (① + ② + ③)
LP2 Front	Front part (① + ②)
LP3 Front R	Right front (②)
LP4 Front L	Left front (①)
LP5 Rear	Rear part (③)

EN

DSP

1 Press (SOUND) momentarily until "LP1" appears.



2 Rotate the dial to select the desired listening position.
The listening positions appear in the order shown above.

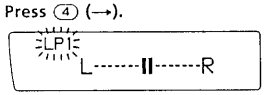
After three seconds, the display goes back to the normal playback mode.

Adjusting the listening position

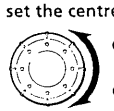
1 Press (SOUND) for two seconds.

2 Rotate the dial to select the desired listening position.

3 Press (4) (→).



4 Rotate the dial to adjust the centre of the sound field to the left or right. Then set the centre of the sound field.

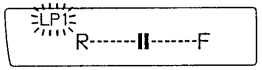


Centre moves to the L (left)

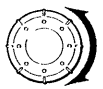
Centre moves to the R (right)

continue to next page →

5 Press ④ (→).



6 Rotate the dial to adjust the centre of the sound field to the front or rear.



Centre moves to the R (rear)

Centre moves to the F (front)

7 Press SOUND for two seconds.
When the effect setting is complete, the normal playback mode display appears.

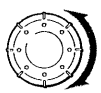
Adjusting the fader (FAD)

Normally, with the DSP mode on, the volume of the output sound from the rear speakers is lowered automatically to improve the efficiency of the listening position setting. If you want to raise the rear speaker volume, adjust the fader.

1 Follow steps 1 to 3 of "Selecting a surround menu" (page 18).

2 Press SOUND momentarily until "FAD" appears.

3 Rotate the dial to adjust the fader.



Decreases front speaker volume

Increases front speaker volume

After three seconds, the display goes back to the normal playback mode.

Adjusting the volume of the subwoofer(s)

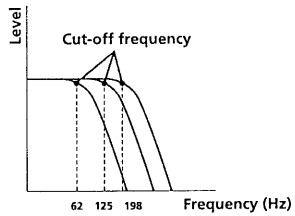
1 Press SOURCE to select a source (radio, tape, CD, or MD).

2 Press SOUND repeatedly until "SUB" appears.

3 Rotate the dial to adjust the volume.
After three seconds, the display goes back to the normal playback mode.

Adjusting the frequency of the subwoofer(s)

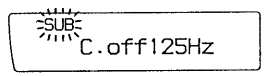
To match the characteristics of the connected subwoofer(s), you can cut the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency (see the diagram below), the subwoofer(s) will output only low frequency signals so that you can get a clearer sound image.



1 Press SOURCE to select a source (radio, tape, CD, or MD).

2 Press SOUND for two seconds.

3 Press SOUND repeatedly until "SUB" appears.



4 Rotate the dial to select the desired cut-off frequency.
The cut-off frequency in the display changes.

5 Press SOUND for two seconds.
When the frequency setting is complete, the display goes back to the normal playback mode.

Adjusting the volume of the bass and treble

You can adjust the volume of the bass and treble to best fit the acoustic characteristics inside your car.

1 Press SOURCE to select a source (radio, tape, CD, or MD).

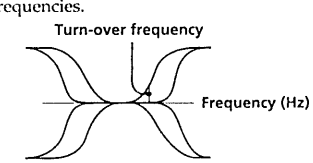
2 Press SOUND repeatedly until "BAS" or "TRE" appears.

3 Rotate the dial to adjust the volume.

After three seconds, the display goes back to the normal playback mode.

Adjusting the turn-over frequency

You can adjust the bass and treble turn-over frequencies.

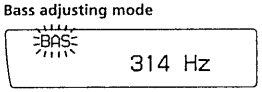


1 Press SOURCE to select a source (radio, tape, CD, or MD).

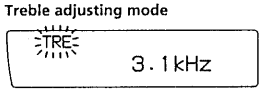
2 Press SOUND for two seconds.

3 Press SOUND repeatedly until "BAS" or "TRE" appears.

Bass adjusting mode



Treble adjusting mode



4 Rotate the dial to select the turn-over frequency.
The turn-over frequencies change as follows:

Bass:
198 Hz → 250 Hz → 314 Hz* → 396 Hz

Treble:
2.0 kHz → 3.1 kHz* → 4.0 kHz → 5.0 kHz

* *Factory-set frequency*

5 Press SOUND for two seconds.
The display goes back to the normal playback mode.

Listening to each programme source in its registered surround menu

— Source Sound Memory (SSM)

You can listen to the same source always in the same surround menu even after changing the programme source or turning the unit on and off again.

Changing the line output level

You can change the line output level if you distortion or other noise.

1 Press SHIFT, then press ② (SET UP) until "L.out" appears.

2 Press ④ (→) to select the desired setting (–10 dB or –16 dB).

Connections

Caution

- This unit is designed for negative earth 12 V DC operation only.
- Before making connections, disconnect the earth terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all earth wires to a common earth point.**

If your car has no accessory position on the ignition key switch — POWER SELECT switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear **if your car has no accessory position on the ignition key switch.** To avoid this battery wear, **set the POWER SELECT switch located on the bottom of the unit to the ❽ position, then press the reset button.** The illumination is reset to stay off while the unit is not being played.

Note

The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the ❽ position.

Frequency select switch

The AM (FM) tuning interval is factory-set to the 9K (50 K) position. If the frequency allocation system of your country is based on 10 kHz (200 kHz) interval, set the switch on the bottom of the unit to the 10 K (200 K) position before making connections.

When using the SUB VOLUME OUT/LINE OUT terminal — LINE-OUT/IN SELECT Switch

With the LINE-OUT/IN SELECT switch on the bottom of the unit, you can change the SUB VOLUME OUT/LINE OUT terminal to work as SUB VOLUME OUT or as LINE OUT terminal.

- When you want to use the SUB VOLUME OUT/LINE OUT terminal as SUB VOLUME OUT terminal and connect an active subwoofer to it, set the switch to ①.
- When you want to use the SUB VOLUME OUT/LINE OUT terminal as LINE OUT terminal and connect a digital signal processor or graphic equalizer to it, set the switch to ❷. In this case, the FRONT LINE OUT terminal and REAR LINE OUT terminal will serve as FRONT LINE IN terminal and REAR LINE IN terminal, respectively.

When an FM diversity aerial is used — FM DIVERSITY switch

The unit can be connected with diversity aerials. If you use this unit with the diversity aerials, set the FM DIVERSITY switch located at the rear of the unit to the ON position to activate the diversity system.

When you do not use the FM diversity aerials

If you wish to connect a conventional rod aerial, be sure to connect it to the aerial connector of the unit marked "MAIN", and set the FM DIVERSITY switch to the OFF position. Never connect the aerial to the connector marked "SUB", otherwise if the FM DIVERSITY switch is set to the ON position, the radio signals may not be received properly.

Note

The radio reception will be disturbed by noise if the connection of the aerials was not made properly or the FM DIVERSITY switch was not set correctly.

Conexiones

Precauciones

- Esta unidad ha sido diseñada para alimentarse con 12 V CC, negativo a masa, solamente.
- Antes de realizar las conexiones, desconecte el terminal de puesta a masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte los cables conectores de alimentación **amarillo** y **rojo** solamente después de haber conectado los demás.
- Cerciórese de conectar el cable conector de alimentación rojo a un terminal de 12 V positivo que se energice al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los conductores de puesta a masa a un punto común.**

Si el automóvil no dispone de posición para accesorios en la llave de encendido — Selector POWER SELECT

La iluminación del panel frontal ha sido ajustada en fábrica para que esté activada aunque la unidad no se encuentre en reproducción. Sin embargo, este ajuste puede provocar cierta descarga de la batería del automóvil **si éste no dispone de posición para accesorios en la llave de encendido.** Para evitar esto, **ponga el selector POWER SELECT, situado en la base de la unidad, en la posición ❽ y, después, presione el botón de reposición.** La iluminación estará desactivada cuando la unidad no se encuentre en reproducción.

Nota

La alarma de precaución del panel frontal no se activará cuando el selector POWER SELECT se encuentre en la posición ❽.

Selector de frecuencia

El intervalo de sintonía de AM (FM) ha sido ajustado en fábrica a la posición 9 K (50 K). Si el sistema de asignación de frecuencias de su país se basa en el intervalo de 10 kHz (200 kHz), ponga este selector, situado en la base de la unidad, en la posición 10 K (200 K) antes de realizar las conexiones.

Si utiliza el terminal SUB VOLUME OUT/LINE OUT — Selector LINE-OUT/IN SELECT

Con el selector LINE-OUT/IN SELECT situado en la base de la unidad, es posible cambiar el terminal SUB VOLUME OUT/LINE OUT para que funcione como terminal SUB VOLUME OUT o como terminal LINE OUT.

- Cuando desee utilizar el terminal SUB VOLUME OUT/LINE OUT como terminal SUB VOLUME OUT y conectarle un altavoz potenciador de graves activo, sitúe el selector en la posición ①.
- Cuando desee utilizar el terminal SUB VOLUME OUT/LINE OUT como terminal LINE OUT y conectarle un procesador de señales digital o un ecualizador gráfico, sitúe el selector en la posición ❷. En este caso, los terminales FRONT LINE OUT y REAR LINE OUT actuarán como los terminales FRONT LINE IN y REAR LINE IN respectivamente.

Cuando utilice antenas de recepción de FM en diversidad — Selector FM DIVERSITY

La unidad podrá conectarse a antenas de recepción en diversidad. Para utilizar esta unidad con antenas de recepción en diversidad, ponga el interruptor FM DIVERSITY situado en la parte posterior de la misma en la posición ON a fin de activar el sistema de recepción en diversidad.

Cuando no utilice antenas de recepción en diversidad

Si desea conectar una antena de telescópica del sistema convencional, cerciórese de hacerlo al conector de la unidad marcado con "MAIN" y de poner el interruptor FM DIVERSITY en la posición OFF. No conecte nunca la antena al conector marcado con "SUB", porque si el interruptor FM DIVERSITY estuviese en ON, las señales de radio no se recibirían adecuadamente.

Nota

La radiorrecepción se verá perturbada por ruido si la conexión de las antenas no fue realizada adecuadamente o si el interruptor FM DIVERSITY no se encuentra en la posición correcta.

線路之連接

注意

- 本機只能使用負極接地 12 V 直流電源。
- 連接以前，先拔取汽車電池的接地端子，以免發生短路。
- **紅色和黃色電源輸入導線必須等所有電線都連接完畢以後才連接。**
- 紅色電源輸入導線請連接到汽車發動機點火鑰匙被轉在輔助位置時才成通電狀態的正 12 V 電源端子上。
- **所有地線都必須連接到同一地點才行。**

若要在汽車發動機點火鑰匙開關沒具輔助位置的汽車裡使用時 — POWER SELECT 開關

前板的照明燈在未出廠以前，被設定在即使不使用也會發亮的狀態。**若要在汽車發動機點火鑰匙開關沒具輔助位置的汽車裡使用本機的話，**此照明燈將會一直消耗微量的汽車電池電力。因此爲了避免在這種狀態下的電池消耗，**請把本機底下的 POWER SELECT 開關設定在 ❽ 之處，然後按壓前板的重調鍵。**則不使用本機時，照明燈便不發亮。

註

POWER SELECT 開關設定在 ❽ 的話，前板的操作鍵蜚聲告功能便失效。

頻率選擇開關

本裝置的 AM (FM) 調諧區間在出廠以前被設定在 9 K (50 K) 位置上。若貴地的頻率區間爲 10 kHz (200 kHz)，連接以前請先把本機機底的選擇開關設定在 10 K (200 K) 之處。

使用 SUB OUT/LINE OUT（副輸出／線路輸出）端子時 — VOLUME（音量）

利用位於機器底邊的 LINE-OUT/IN SELECT 開關，可將 SUB VOLUME OUT/LINE OUT（副音量輸出／線路輸出）端子當作 SUB VOLME OUT（副音量輸出）或 LINE OUT 端子的功能使用。

- 當您想用 SUB VOLUME OUT/LINE OUT 端子作爲 SUB VOLUME OUT（副音量輸出）端子使用並接一個有源副低音揚聲器時，請將開關設定於 ① 的位置。
- 當想用 SUB VOLUME OUT/LINE OUT 端子當作 LINE OUT 端子使用並接上一個數碼信號處理機或多頻音調補償器時，請將開關設定於 ❷ 的位置。此時，FRONT LINE OUT（前面線路輸出）端子和 REAR LINE OUT（後面線路輸出）端子即可分別當作 FRONT LINE IN（前面線路輸入）端子和 REAR LINE IN（後面線路輸入）端子使用。

收聽 FM 廣播時若使用分集式天線 — FM DIVERSITY 開關

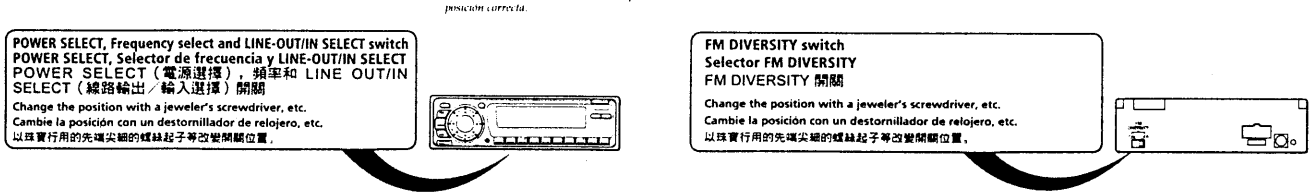
本裝置也可使用分集式天線。使用分集式天線時，把機底的 FM DIVERSITY 開關設定在 ON，以使分集功能起作用。

若不使用 FM 分集式天線

若要使用一般的棒形天線，須把它連接到註著 "MAIN" 的天線插口，並把 FM DIVERSITY 開關設定在 OFF，絕對不可把天線連接到註著 "SUB" 的插口，否則當把 FM DIVERSITY 開關設定在 ON 時，不能正常接收收音機信號。

註

若天線連接不正確或 FM DIVERSITY 開關位置調整不合適的話，收音機廣播聲音會發生噪音。


POWER SELECT, Frequency select and LINE-OUT/IN SELECT switch
POWER SELECT, Selector de frecuencia y LINE-OUT/IN SELECT
POWER SELECT（電源選擇），頻率和 LINE OUT/IN SELECT（線路輸出／輸入選擇）開關
Change the position with a jeweler's screwdriver, etc.
Cambie la posición con un destornillador de relojero, etc.
以珠寶行用的先端尖細的螺絲起子等改變開關位置，
FM DIVERSITY switch
Selector FM DIVERSITY
FM DIVERSITY 開關
Change the position with a jeweler's screwdriver, etc.
Cambie la posición con un destornillador de relojero, etc.
以珠寶行用的先端尖細的螺絲起子等改變開關位置，

When you change the position of the switch, be sure to press one of the reset buttons after the connections are completed.

Cuando haya cambiado la posición del selector, cerciórese de presionar uno de los botones de reposición después de haber finalizado las conexiones.

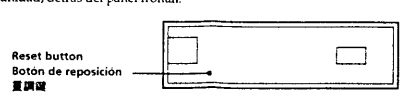
改變開關位置時，請一定在連接好機器後按下一個重調鍵。

Reset button

When the installation and connections are over, be sure to press the reset button with a ballpoint pen etc. The reset button is located on the left of the connector on the unit side when the front panel is detached.

Botón de reposición

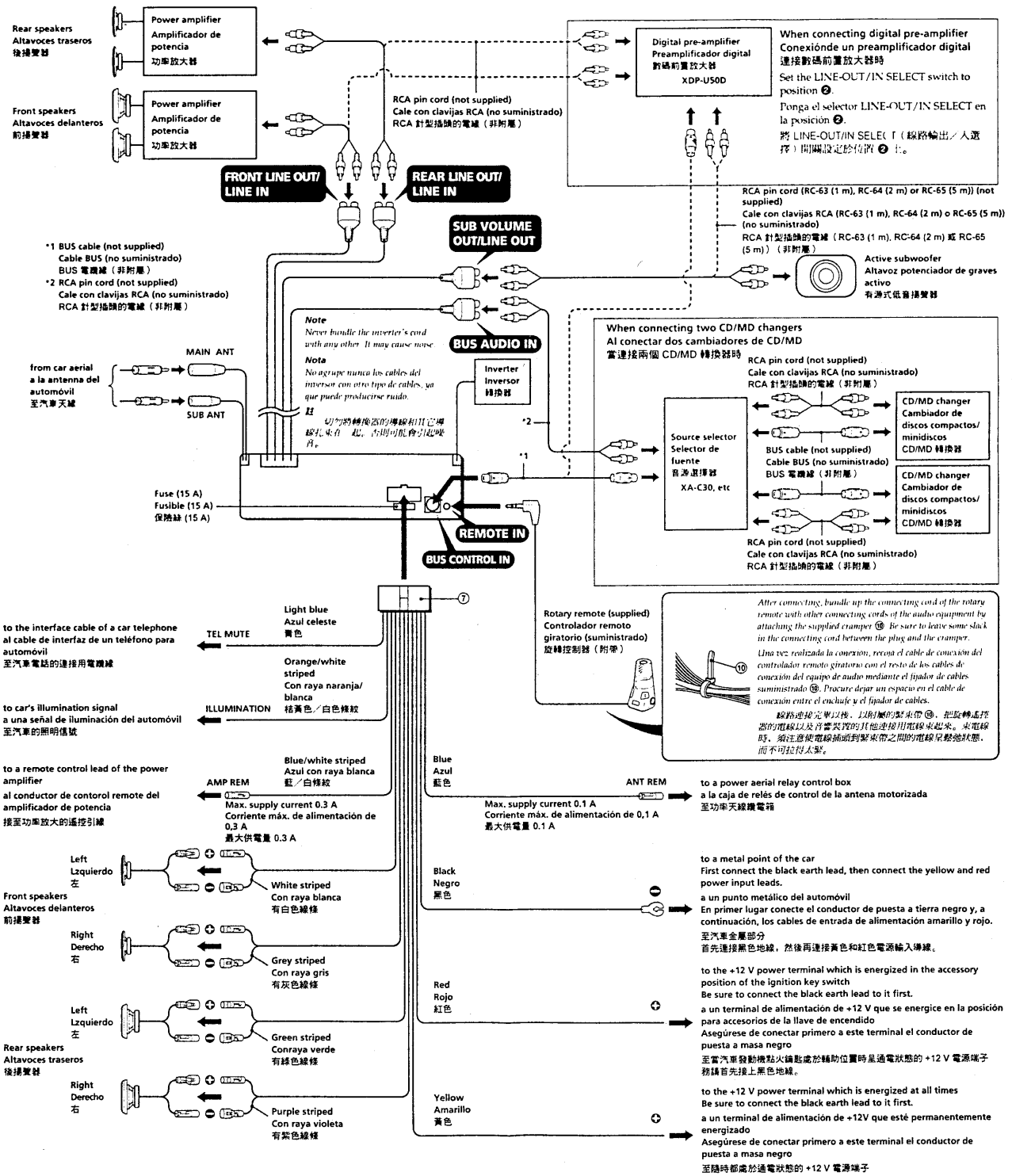
Cuando haya finalizado la instalación y las conexiones, cerciórese de presionar el botón de reposición con un bolígrafo, etc. El botón de reposición se encuentra a la izquierda del conector de la parte lateral de la unidad, detrás del panel frontal.



重調鍵

安裝和線路之連接完畢以後，請以原子筆等按壓重調鍵。取下前板時，則可看到重調鍵位於本機連接器左邊。

Connection example　　Ejemplo de conexiones　　線路之連接圖例


Rear speakers
Altavoces traseros
後揚聲器
Power amplifier
Amplificador de potencia
功率放大器
Front speakers
Altavoces delanteros
前揚聲器
Power amplifier
Amplificador de potencia
功率放大器
RCA pin cord (not supplied)
Cale con clavijas RCA (no suministrado)
RCA 針型插頭的電纜（非附屬）
Digital pre-amplifier
Preamplificador digital
數碼前置放大器
XDP-U50D
When connecting digital pre-amplifier
Conexiónde un preamplificador digital
連接數碼前置放大器時
Set the LINE-OUT/IN SELECT switch to position ❷.
Ponga el selector LINE-OUT/IN SELECT en la posición ❷.
將 LINE-OUT/IN SELECT（線路輸出／入選擇）開關設定於位置 ❷ 上。
FRONT LINE OUT/ LINE IN
REAR LINE OUT/ LINE IN
RCA pin cord (RC-63 (1 m), RC-64 (2 m) or RC-65 (5 m)) (not supplied)
Cale con clavijas RCA (RC-63 (1 m), RC-64 (2 m) o RC-65 (5 m)) (no suministrado)
RCA 針型插頭的電纜（RC-63 (1 m), RC-64 (2 m) 或 RC-65 (5 m)）（非附屬）
SUB VOLUME OUT/LINE OUT
Active subwoofer
Altavoz potenciador de graves activo
有源式低音揚聲器
*1 BUS cable (not supplied)
Cable BUS (no suministrado)
BUS 電纜線（非附屬）
*2 RCA pin cord (not supplied)
Cale con clavijas RCA (no suministrado)
RCA 針型插頭的電纜（非附屬）
Note
Never bundle the inverter's cord with any other. It may cause noise.
Nota
No agrupe nunca los cables del inversor con otro tipo de cables, ya que puede producirse ruido.
注
切勿將轉換器的導線和其它導線扎束在一起，否則可能會引起噪音。
BUS AUDIO IN
Inverter
Inversor
轉換器
MAIN ANT
from car aerial
a la antenna del automóvil
至汽車天線
SUB ANT
When connecting two CD/MD changers
Al conectar dos cambiadores de CD/MD
當連接兩個 CD/MD 轉換器時
RCA pin cord (not supplied)
Cale con clavijas RCA (no suministrado)
RCA 針型插頭的電纜（非附屬）
Source selector
Selector de fuente
音源選擇器
XA-C30, etc
CD/MD changer
Cambiador de discos compactos/ minidiscos
CD/MD 轉換器
BUS cable (not supplied)
Cable BUS (no suministrado)
BUS 電纜線（非附屬）
CD/MD changer
Cambiador de discos compactos/ minidiscos
CD/MD 轉換器
RCA pin cord (not supplied)
Cale con clavijas RCA (no suministrado)
RCA 針型插頭的電纜（非附屬）
*2
*1
Fuse (15 A)
Fusible (15 A)
保險絲 (15 A)
REMOTE IN
BUS CONTROL IN
Rotary remote (supplied)
Controlador remoto giratorio (suministrado)
旋轉控制器（附帶）
After connecting, bundle up the connecting cord of the rotary remote with other connecting cords of the audio equipment by attaching the supplied cramper ⑯. Be sure to leave some slack in the connecting cord between the plug and the cramper.
Una vez realizada la conexión, recoja el cable de conexión del controlador remoto giratorio con el resto de los cables de conexión del equipo de audio mediante el fijador de cables suministrado ⑯. Procure dejar un espacio en el cable de conexión entre el enchufe y el fijador de cables.
線路連接完畢以後，以附屬的緊束帶⑯，把旋轉遙控器的電線以及音響裝置的其他連接用電線束起來。束電線時，須注意使電線插頭到緊束帶之間的電線呈鬆弛狀態，而不可拉得太緊。
to the interface cable of a car telephone
al cable de interfaz de un teléfono para automóvil
至汽車電話的連接用電纜線
TEL MUTE
Light blue
Azul celeste
青色
to car's illumination signal
a una señal de iluminación del automóvil
至汽車的照明信號
ILLUMINATION
Orange/white striped
Con raya naranja/ blanca
桔黃色／白色條紋
to a remote control lead of the power amplifier
al conductor de contorol remote del amplificador de potencia
接至功率放大的遙控引線
AMP REM
Blue/white striped
Azul con raya blanca
藍／白條紋
Max. supply current 0.3 A
Corriente máx. de alimentación de 0,3 A
最大供電量 0.3 A
Blue
Azul
藍色
ANT REM
to a power aerial relay control box
a la caja de relés de control de la antena motorizada
至功率天線機電箱
Max. supply current 0.1 A
Corriente máx. de alimentación de 0,1 A
最大供電量 0.1 A
Front speakers
Altavoces delanteros
前揚聲器
Left
Izquierdo
左
White striped
Con raya blanca
有白色線條
Right
Derecho
右
Grey striped
Con raya gris
有灰色線條
Rear speakers
Altavoces traseros
後揚聲器
Left
Izquierdo
左
Green striped
Conraya verde
有綠色線條
Right
Derecho
右
Purple striped
Con raya violeta
有紫色線條
Black
Negro
黑色
to a metal point of the car
First connect the black earth lead, then connect the yellow and red power input leads.
a un punto metálico del automóvil
En primer lugar conecte el conductor de puesta a tierra negro y, a continuación, los cables de entrada de alimentación amarillo y rojo.
至汽車金屬部分
首先連接黑色地線，然後再連接黃色和紅色電源輸入導線。
Red
Rojo
紅色
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Be sure to connect the black earth lead to it first.
a un terminal de alimentación de +12 V que se energice en la posición para accesorios de la llave de encendido
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro
至當汽車發動機點火鑰匙處於輔助位置時是通電狀態的 +12 V 電源端子
務請首先接上黑色地線。
Yellow
Amarillo
黃色
to the +12 V power terminal which is energized at all times
Be sure to connect the black earth lead to it first.
a un terminal de alimentación de +12V que esté permanentemente energizado
Asegúrese de conectar primero a este terminal el conductor de puesta a masa negro
至隨時都處於通電狀態的 +12 V 電源端子
務請首先接上黑色地線。

Notes on the control leads
- The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) Function.
- A power aerial without relay box cannot be used with this unit.

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

Notas sobre los conductores de control
- El conductor de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador o cuando active la función de activación automática del sintonizador (ATA).
- Con esta unidad no podrá utilizarse una antena motorizada sin caja de relés.

Conexión para protección de la memoria
Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición OFF.

Notas sobre la conexión de los altavoces
- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 ohmios, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.
- No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.
- No intente conectar los altavoces en paralelo.
- No conecte altavoces activos (con amplificador incorporado) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.

關於控制導線
- 接通調諧器電源或使 ATA（調諧器自動通電）功能時，功率天線的控制線（藍色）便能供給 12V 直流電。
- 本機不能使用沒具機電箱的功率天線。

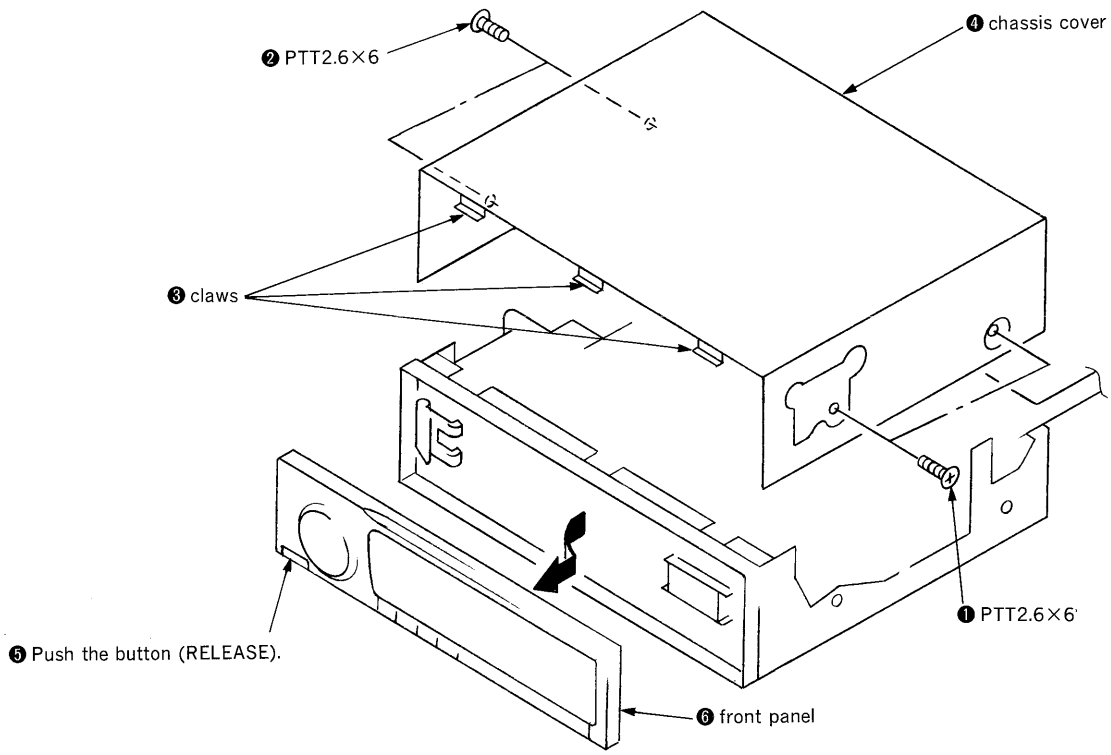
保持記憶的線路連接法
當連接著黃色電源輸入電線時，即使汽車發動機點火鑰匙被轉在電源切斷之處，電源仍將繼續供給電流給記憶用電線，以維持所記憶著的數據。

連接揚聲器時的注意事項
- 連接揚聲器電線以前，請切斷本機電源。
- 揚聲器請使用阻抗為 4 到 8 之間，並具有適合本機使用的電容量者。否則會損壞揚聲器。
- 不可把揚聲器端子連接到汽車底盤，也不可把位揚聲器和右揚聲器相連接。
- 揚聲器不可平行的連接。
- 不可連接有源揚聲器（內裝有放大器者）至本機的揚聲器端子，否則會損壞揚聲器。這些端子只能連接無源揚聲器。

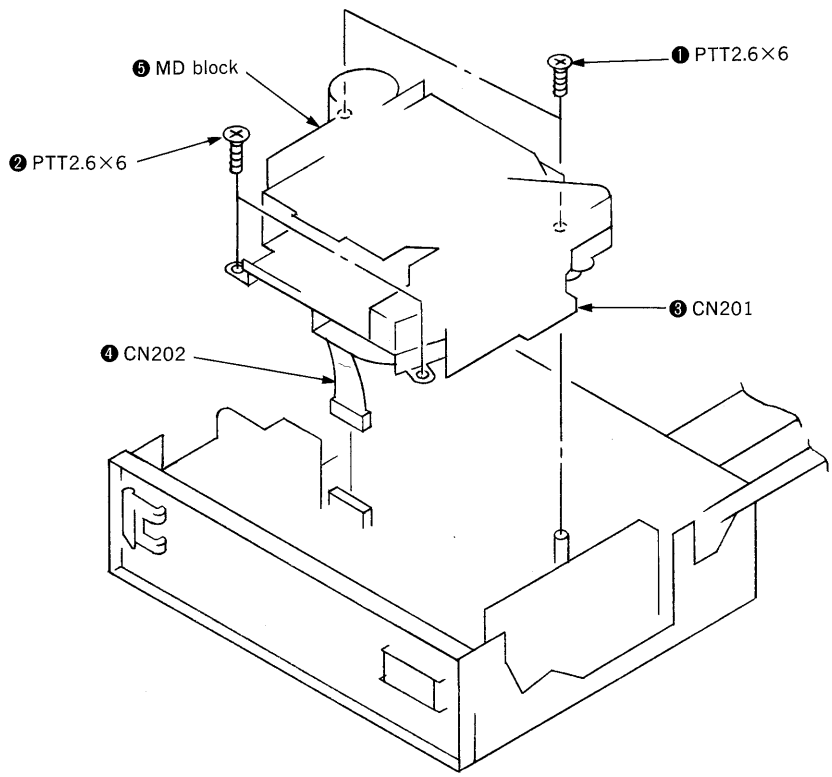
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

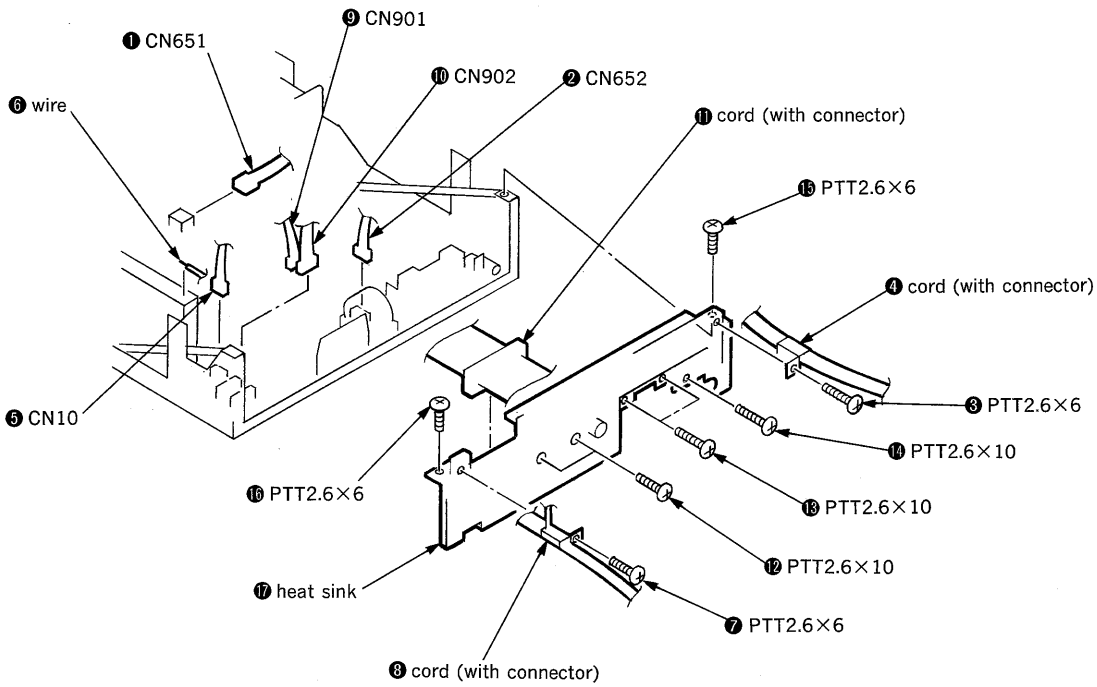
2-1. FRONT PANEL



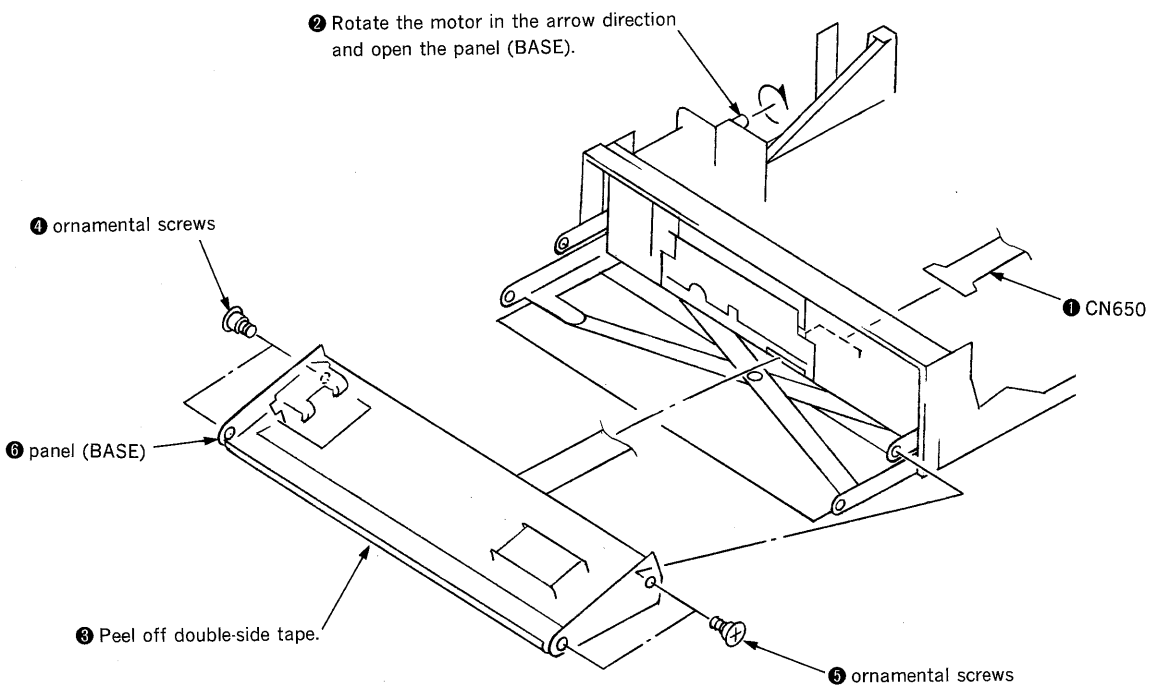
2-2. MD BLOCK



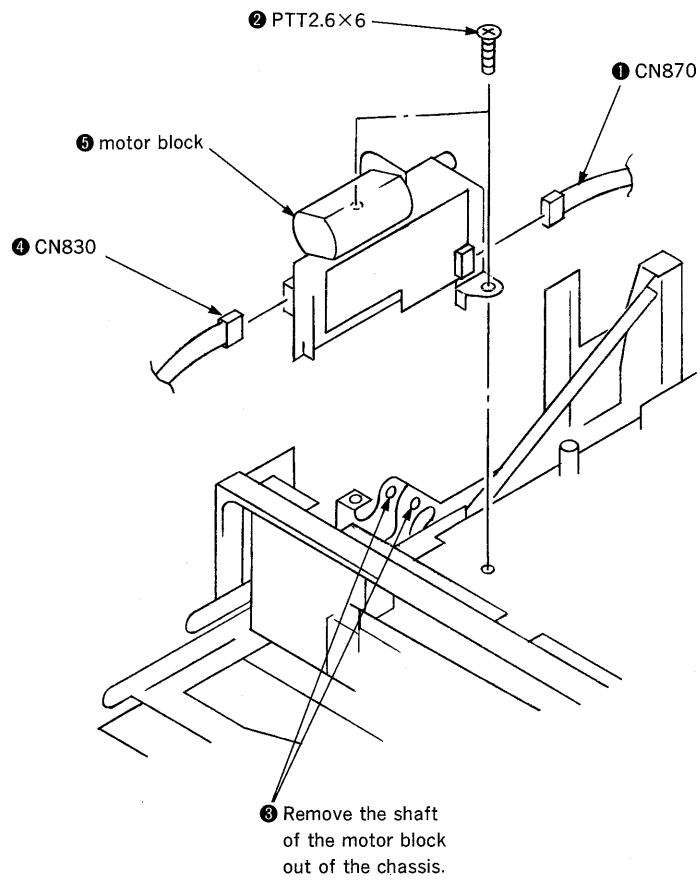
2-3. HEAT SINK



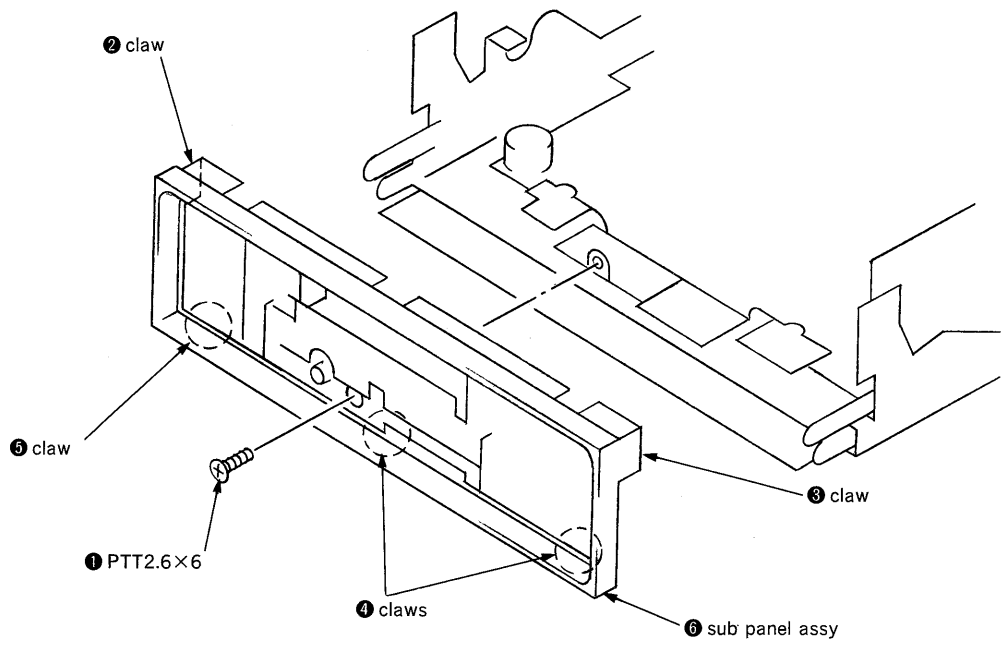
2-4. PANEL (BASE)


❷ Rotate the motor in the arrow direction and open the panel (BASE).
❹ ornamental screws
❶ CN650
❻ panel (BASE)
❸ Peel off double-side tape.
❺ ornamental screws

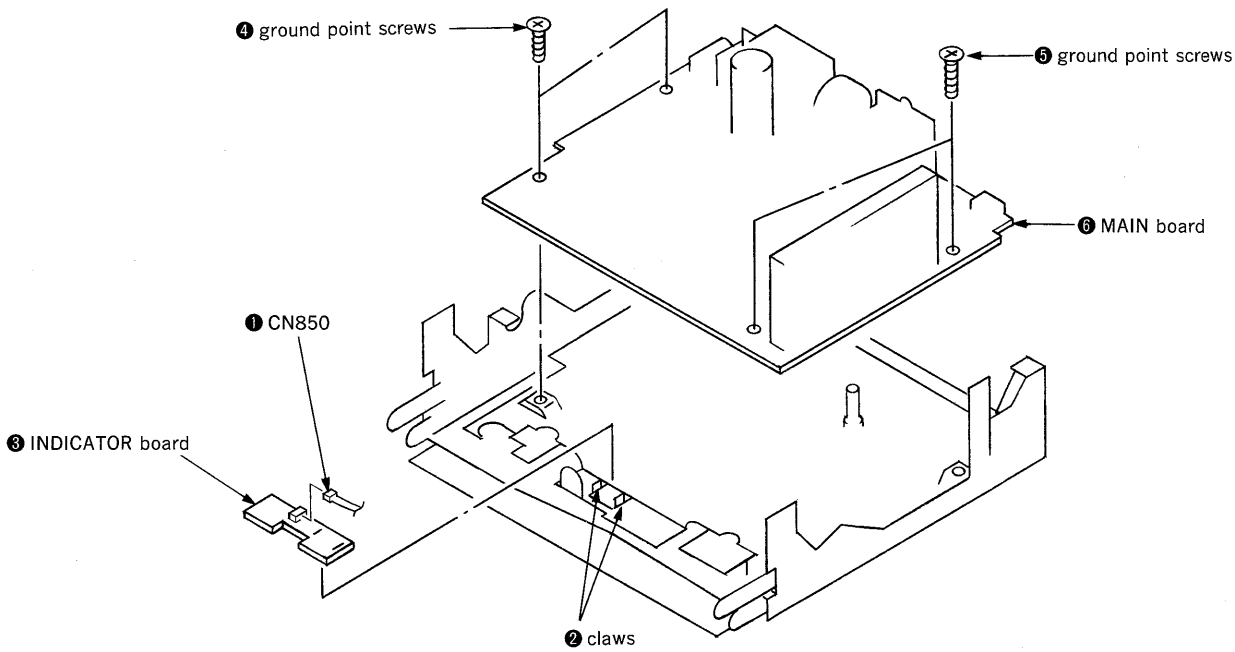
2-5. MOTOR BLOCK



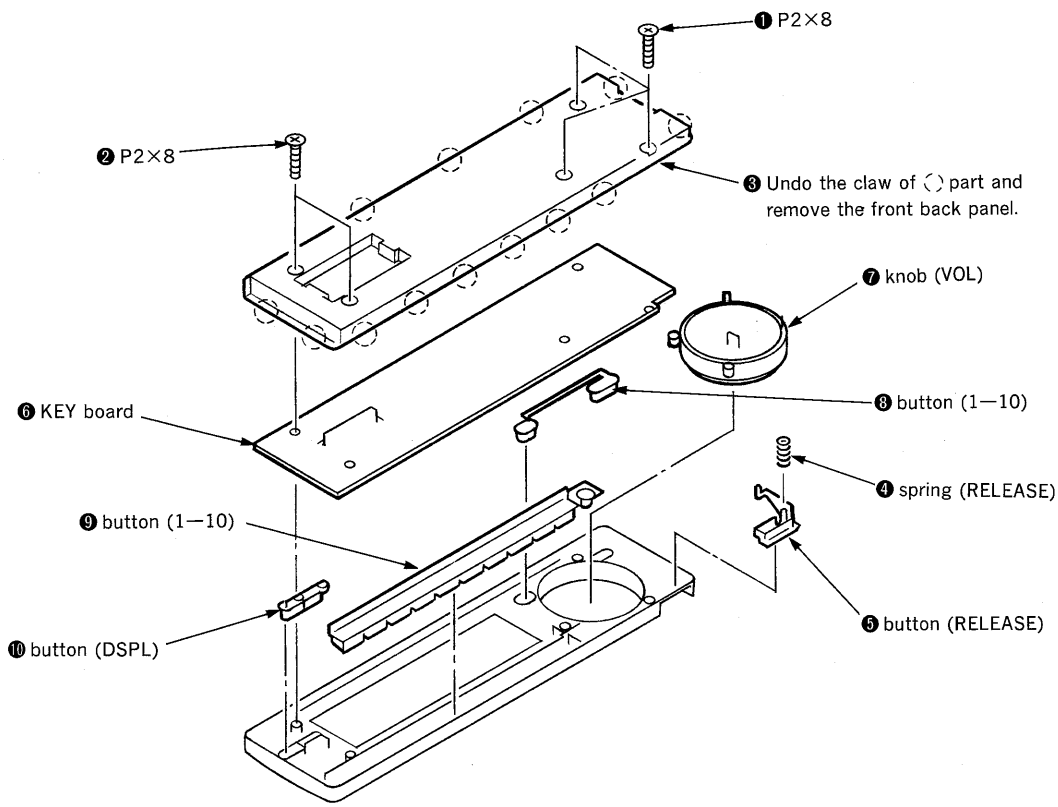
2-6. SUB PANEL



2-7. MAIN BOARD



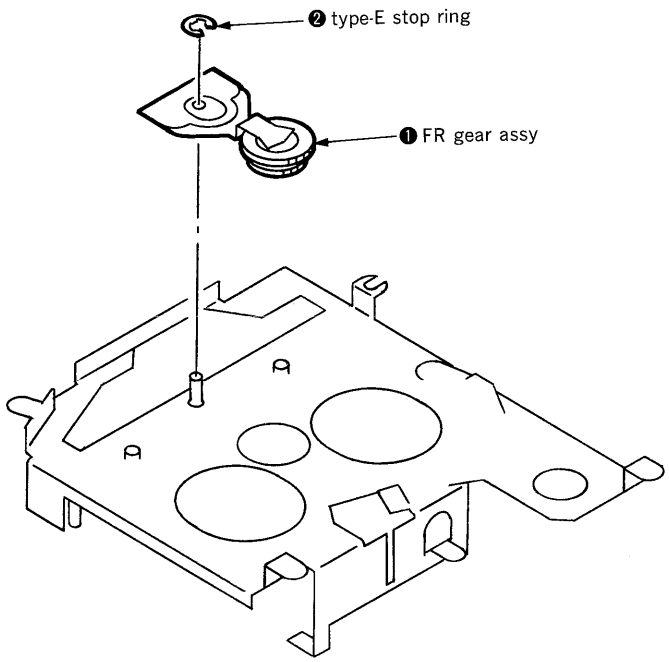
2-8. KEY BOARD



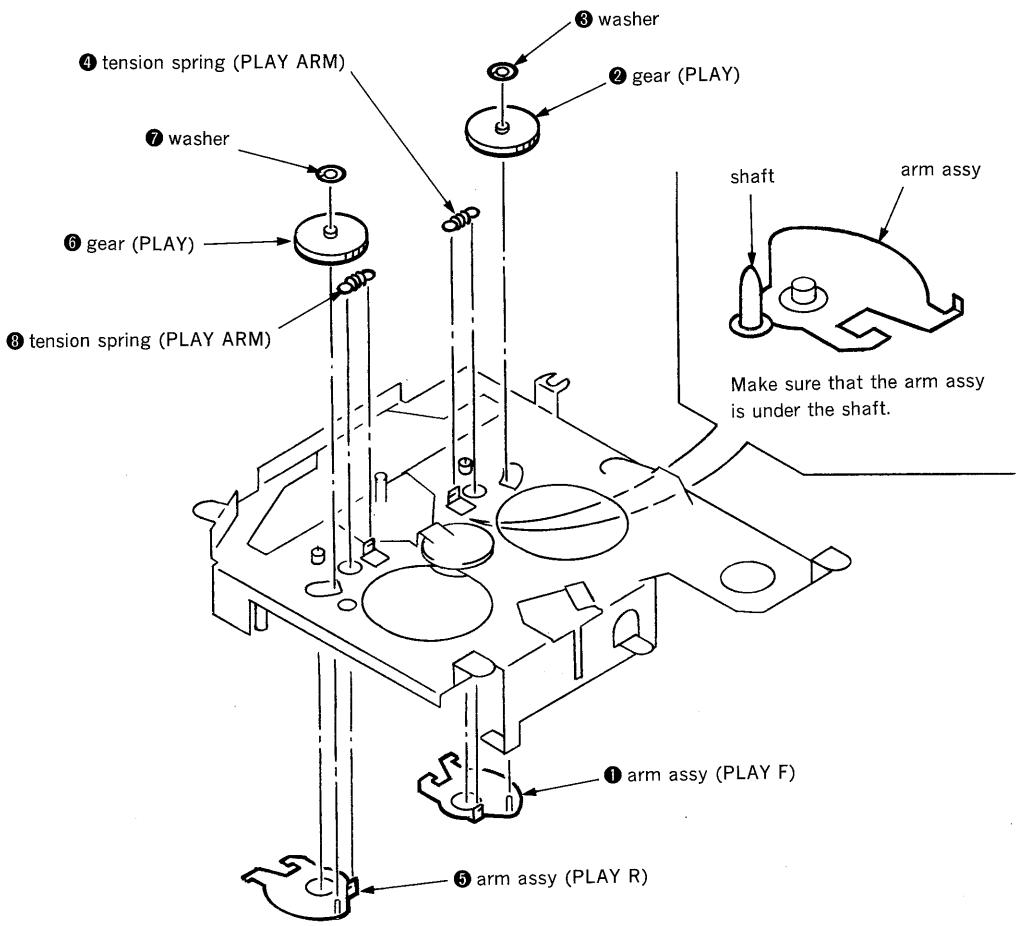
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note : Follow the assembly procedure in the numerical order given.

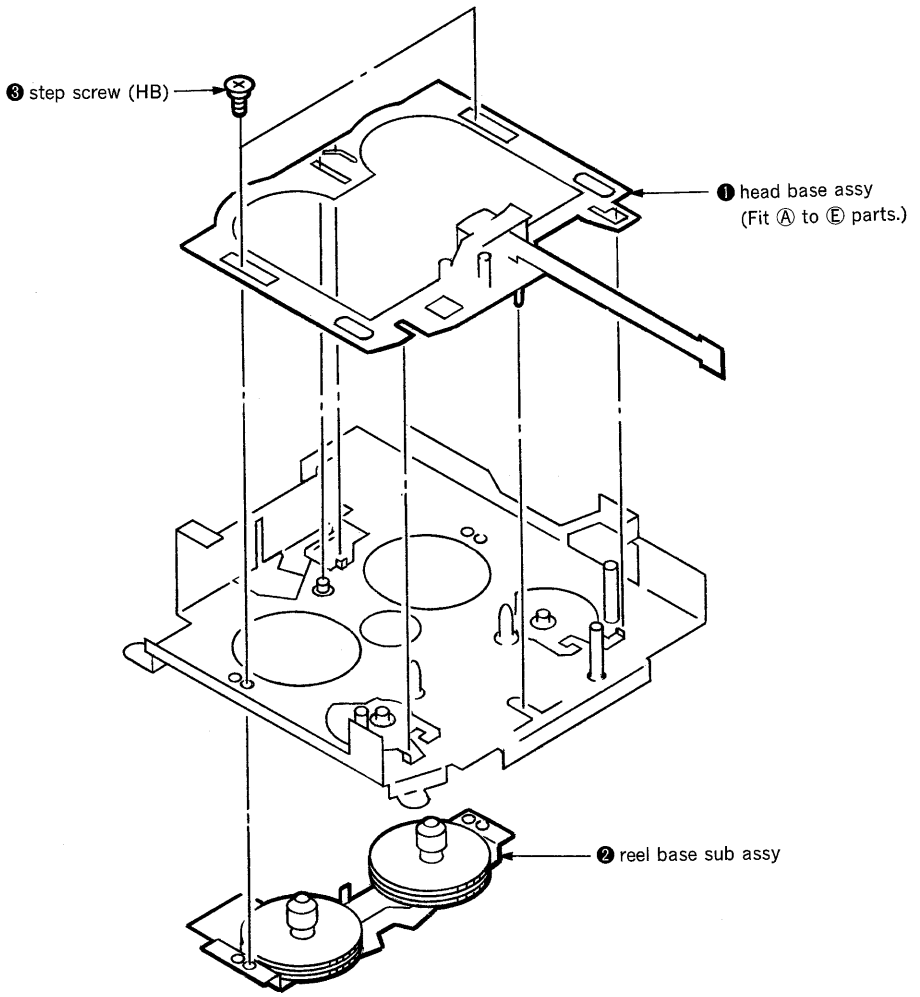
3-1. FR GEAR ASSY

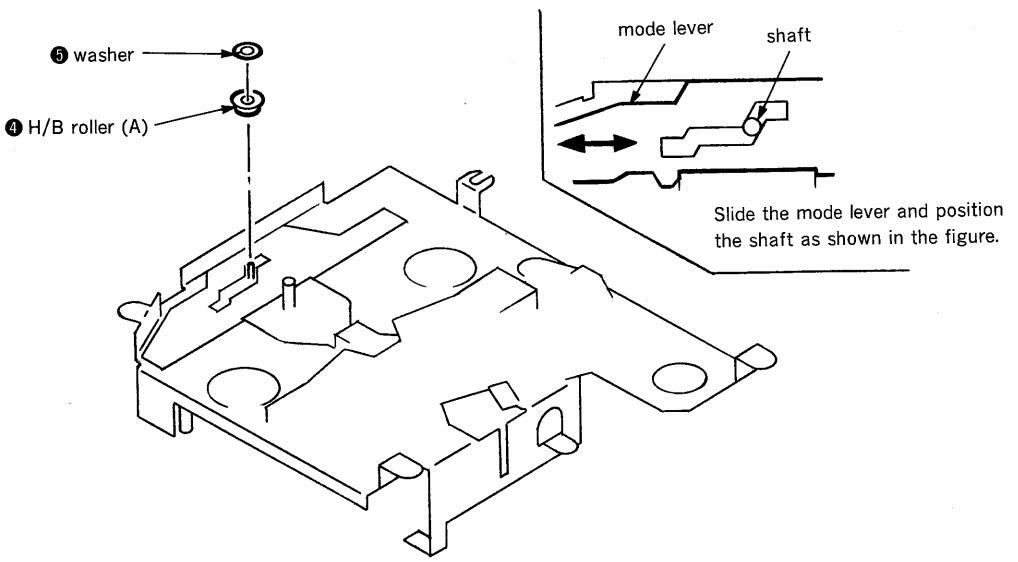


3-2. ARM ASSY

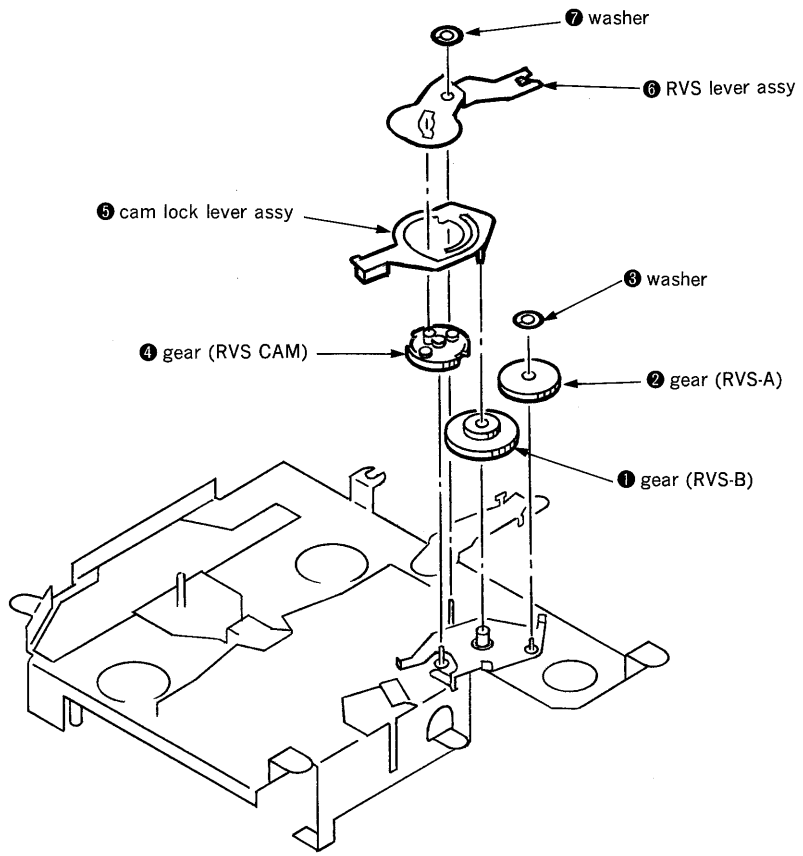


3-3. HEAD BASE ASSY

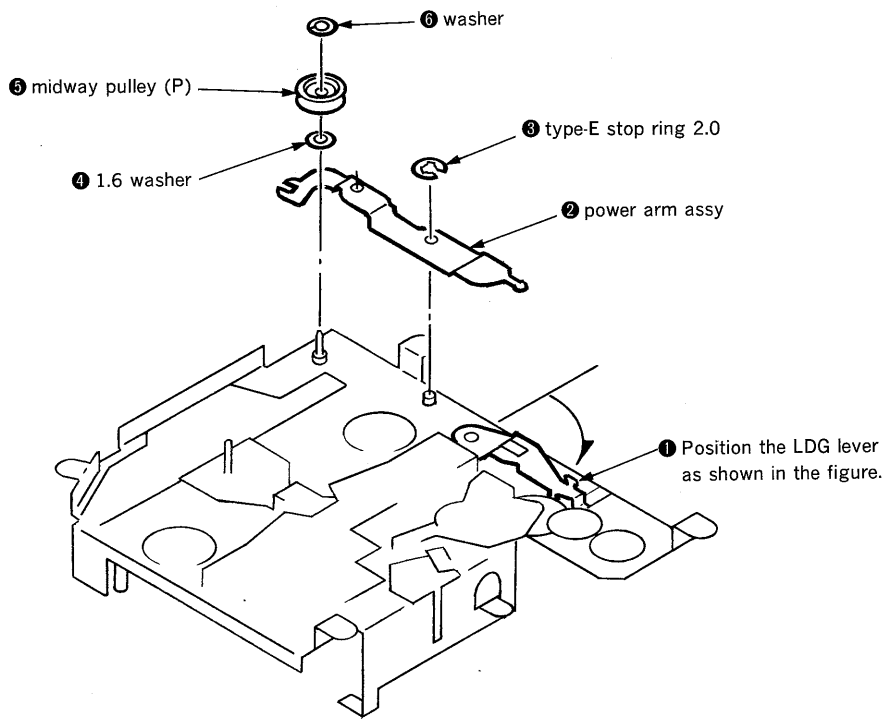




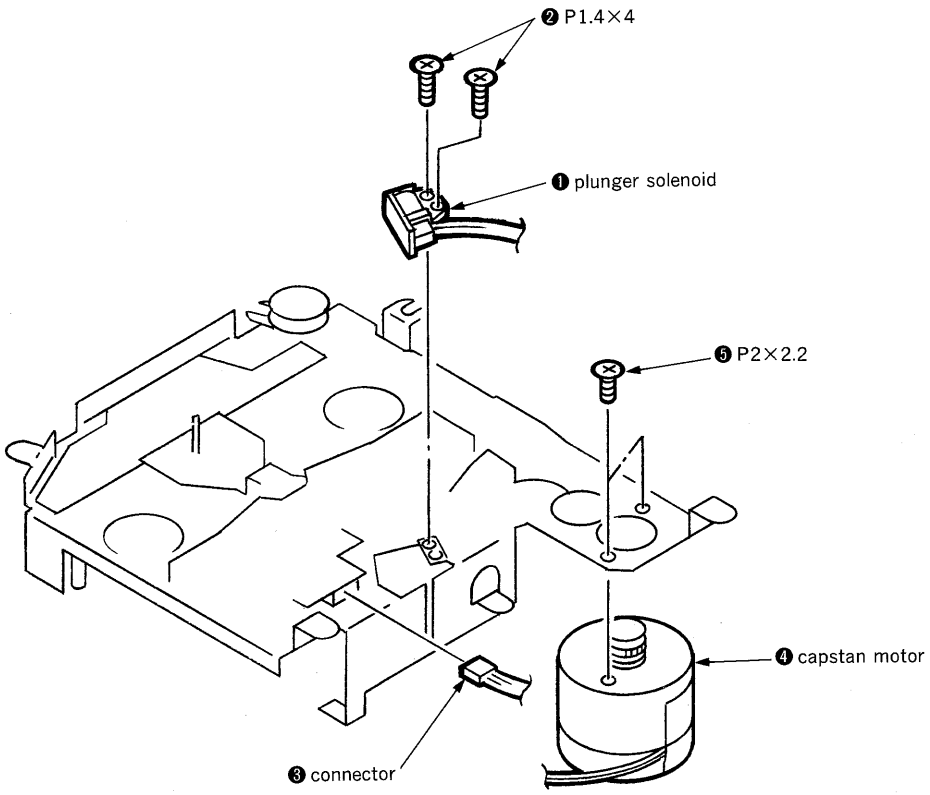
3-4. RVS LEVER ASSY



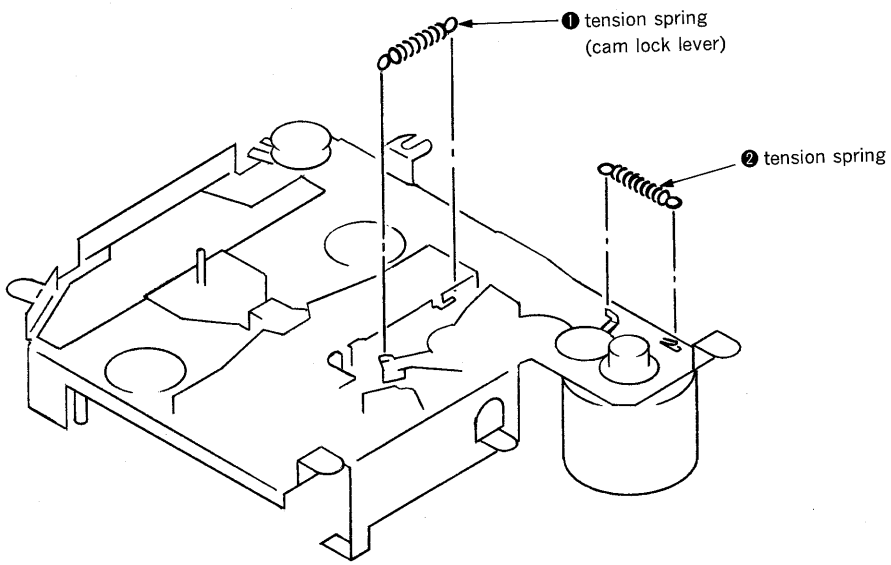
3-5. MIDWAY PULLEY (P)



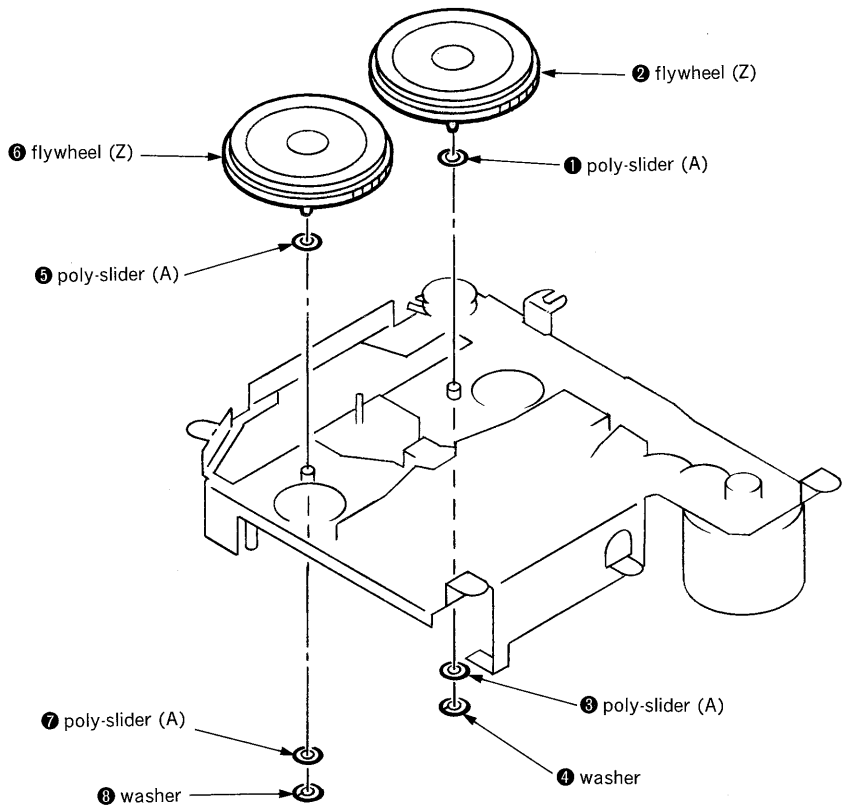
3-6. CAPSTAN MOTOR



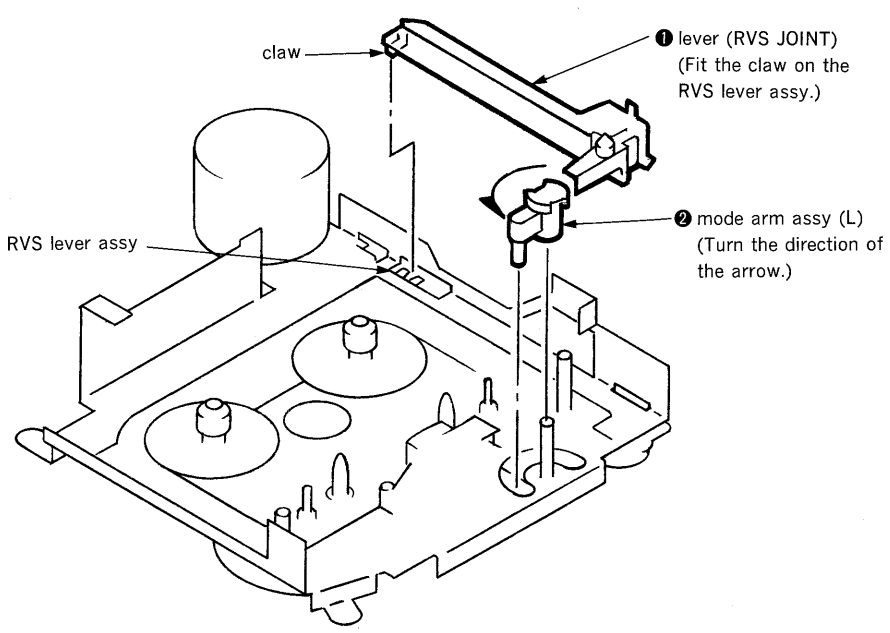
3-7. TENSION SPRING



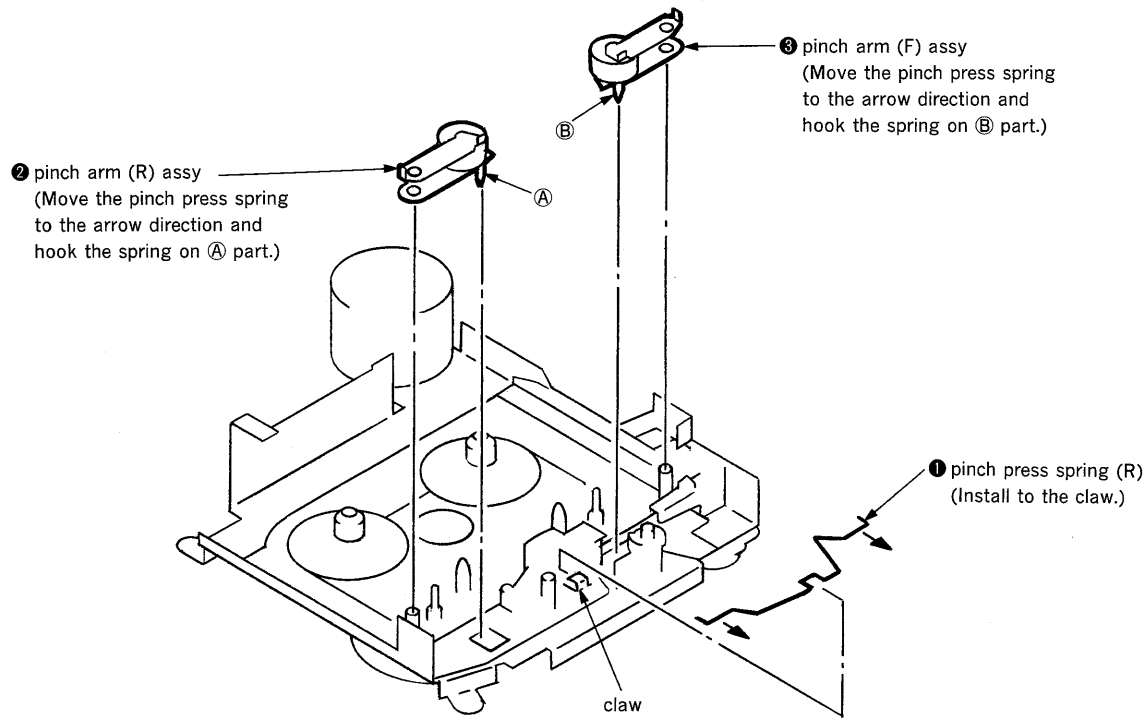
3-8. FLYWHEEL



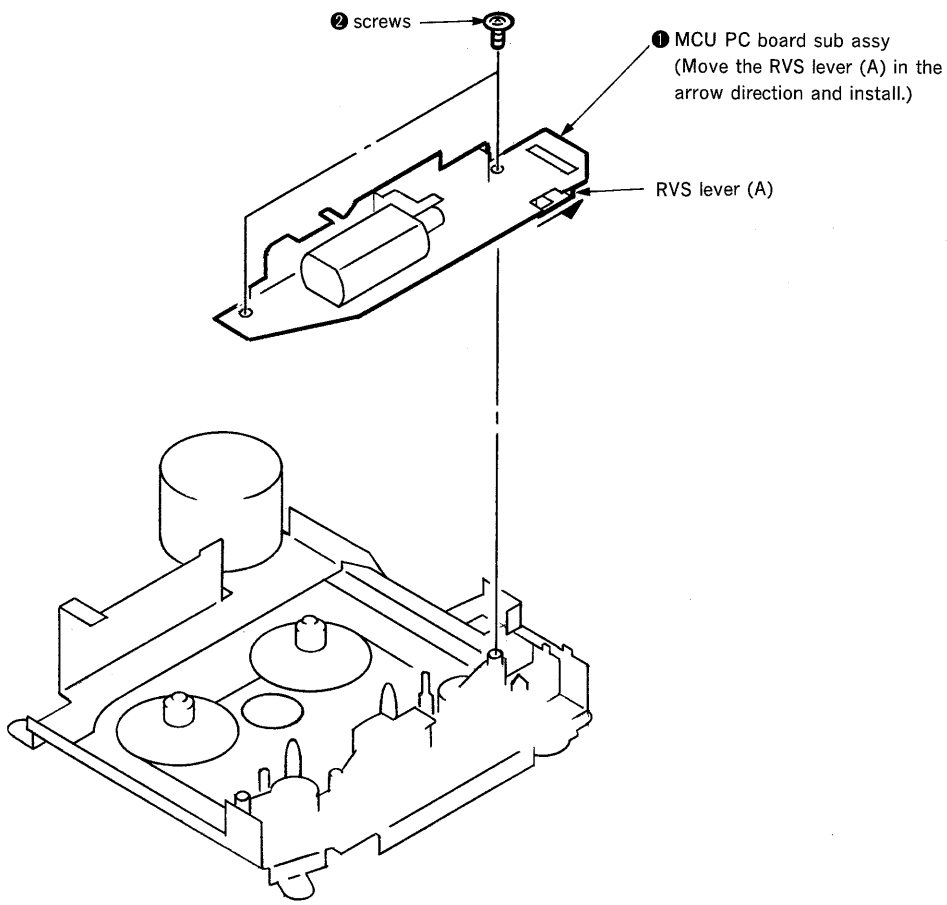
3-9. MODE ARM ASSY



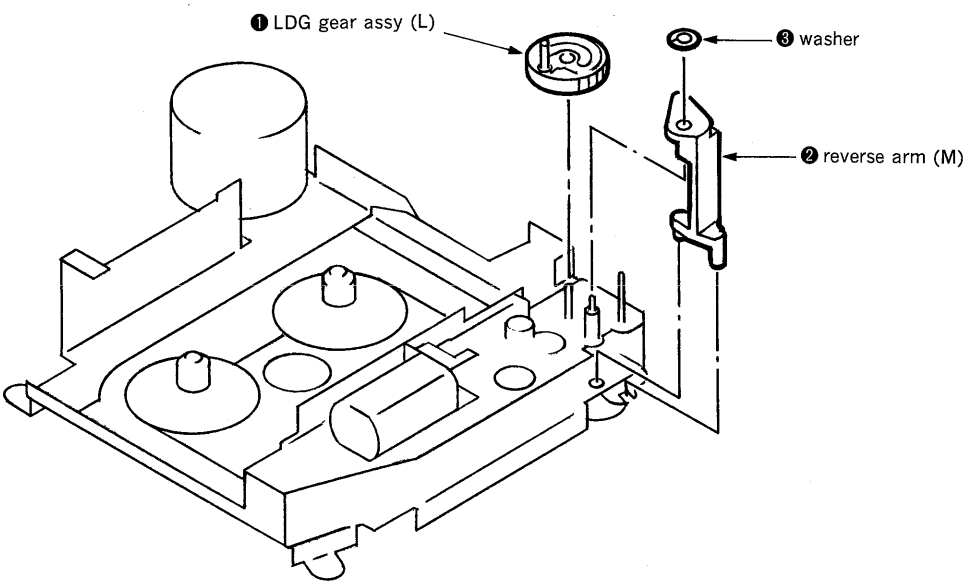
3-10. PINCH ARM ASSY


❸ pinch arm (F) assy
(Move the pinch press spring
to the arrow direction and
hook the spring on Ⓑ part.)
Ⓑ
❷ pinch arm (R) assy
(Move the pinch press spring
to the arrow direction and
hook the spring on Ⓐ part.)
Ⓐ
❶ pinch press spring (R)
(Install to the claw.)
claw

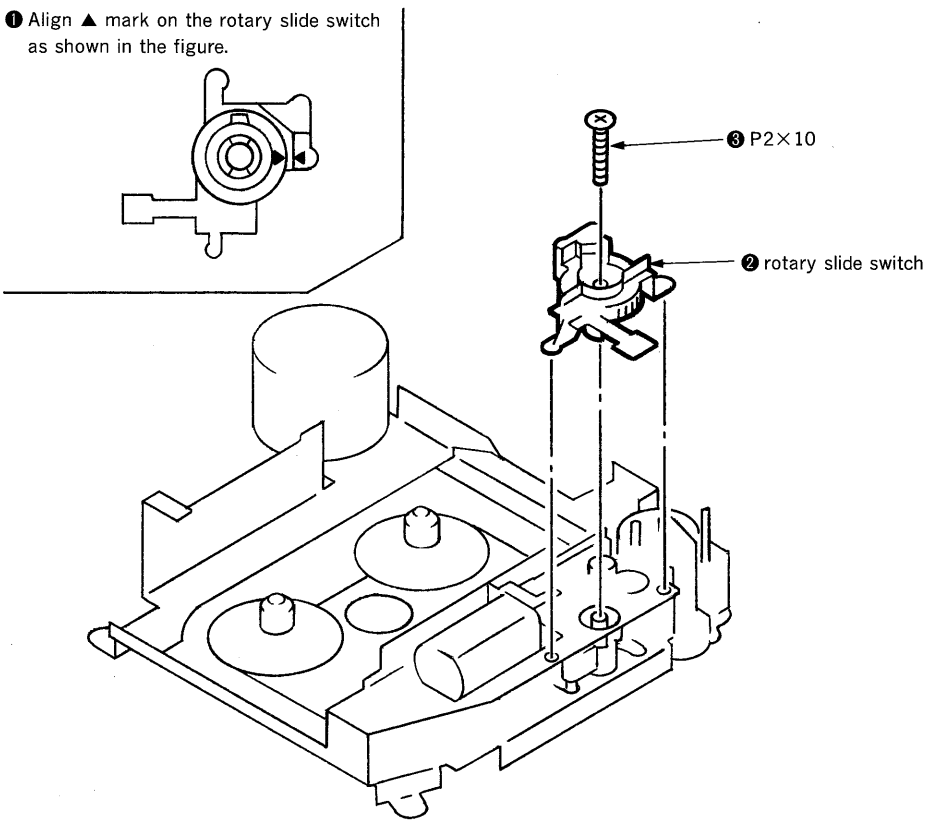
3-11. MCU PC BOARD SUB ASSY



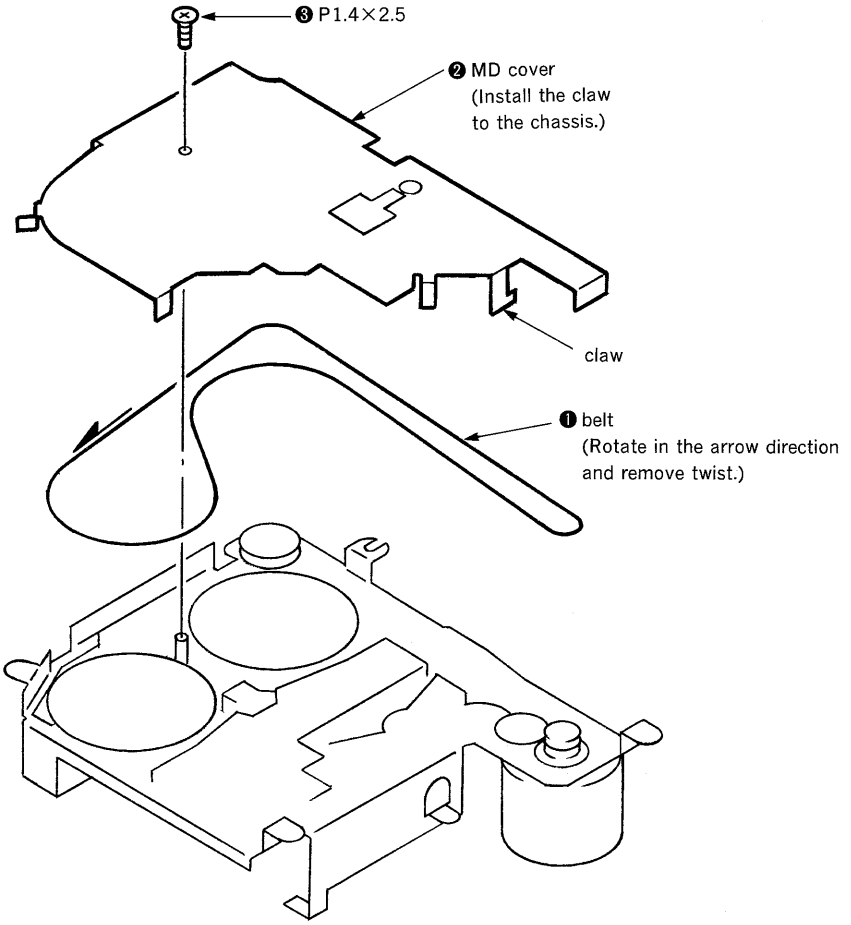
3-12. REVERSE ARM (M)



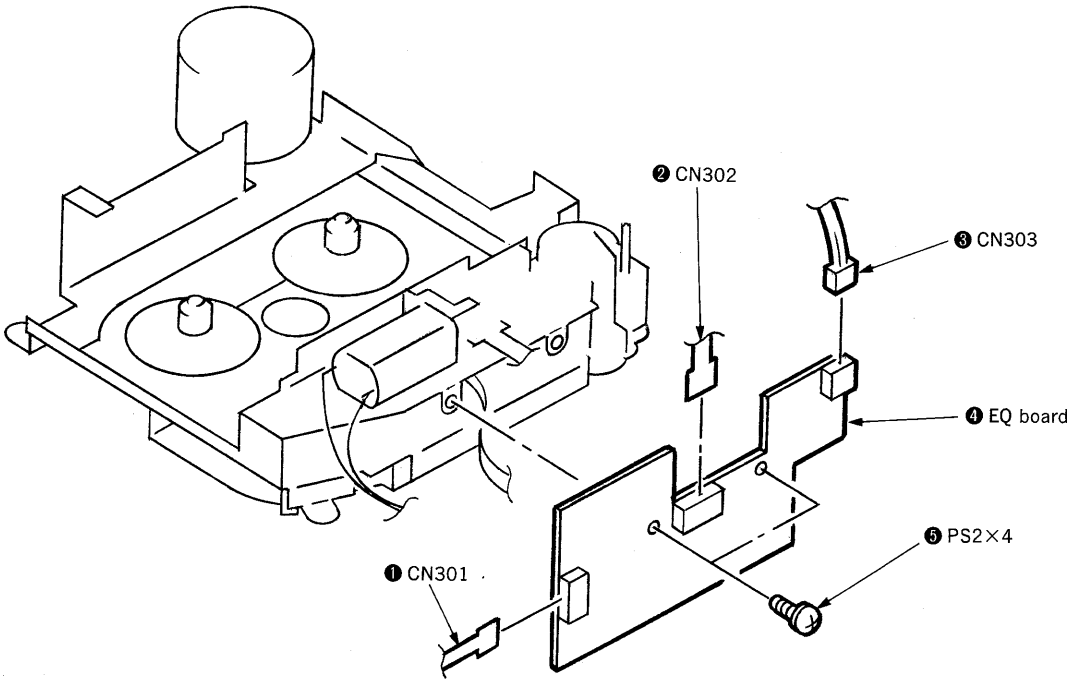
3-13. ROTARY SLIDE SWITCH



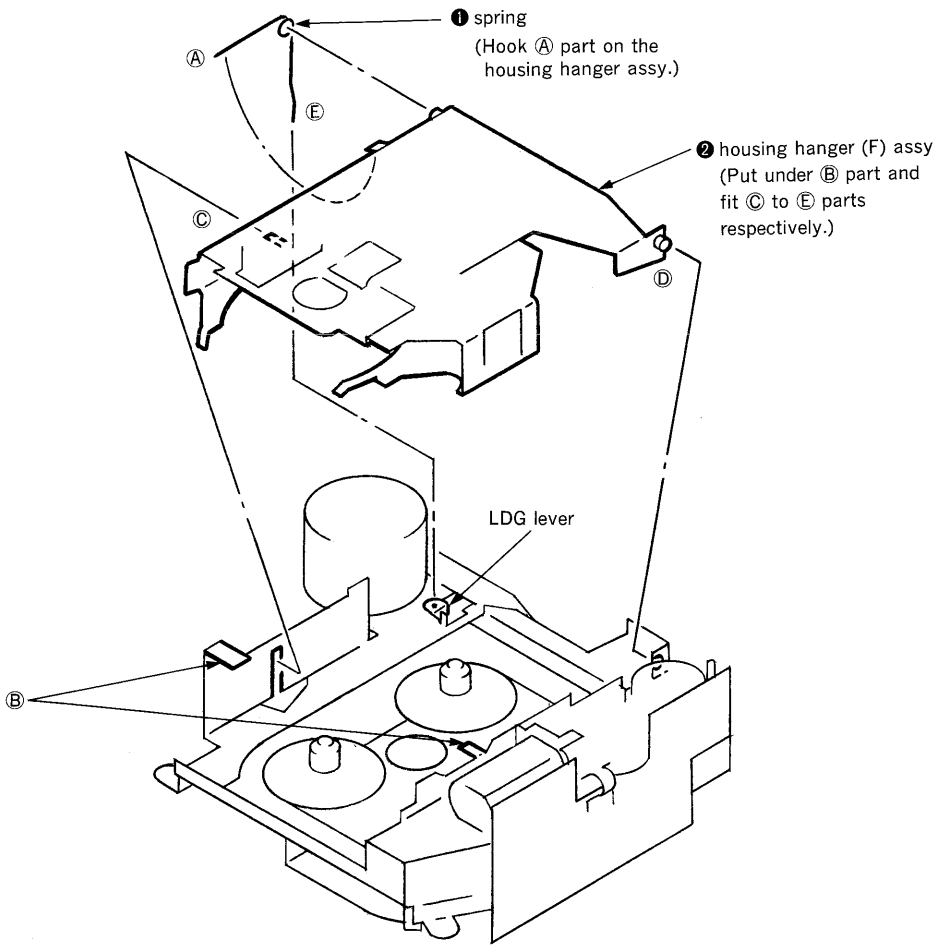
3-14. MD COVER



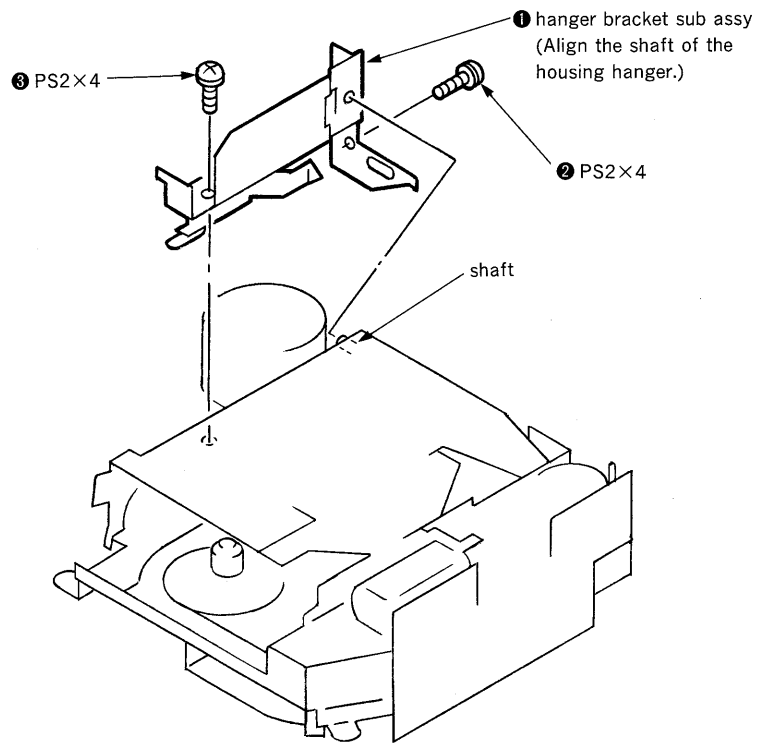
3-15. EQ BOARD



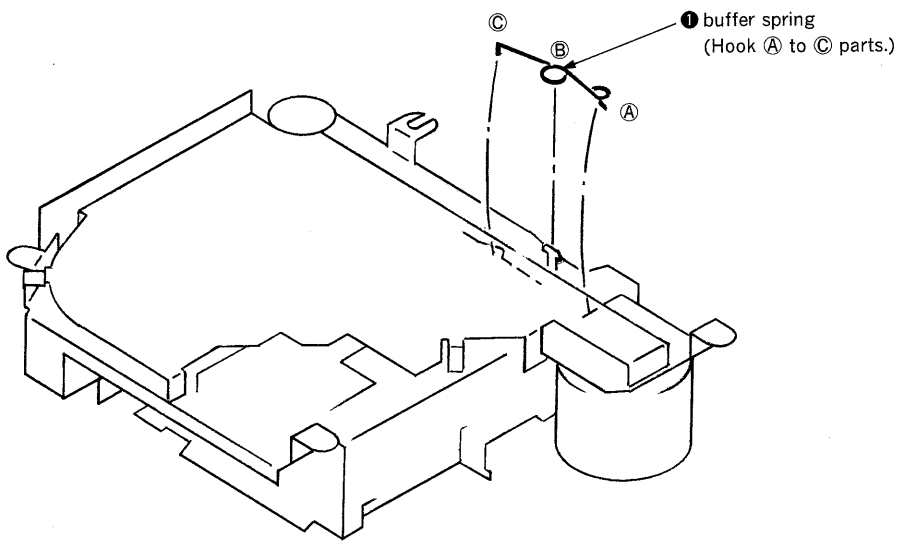
3-16. HOUSING HANGER



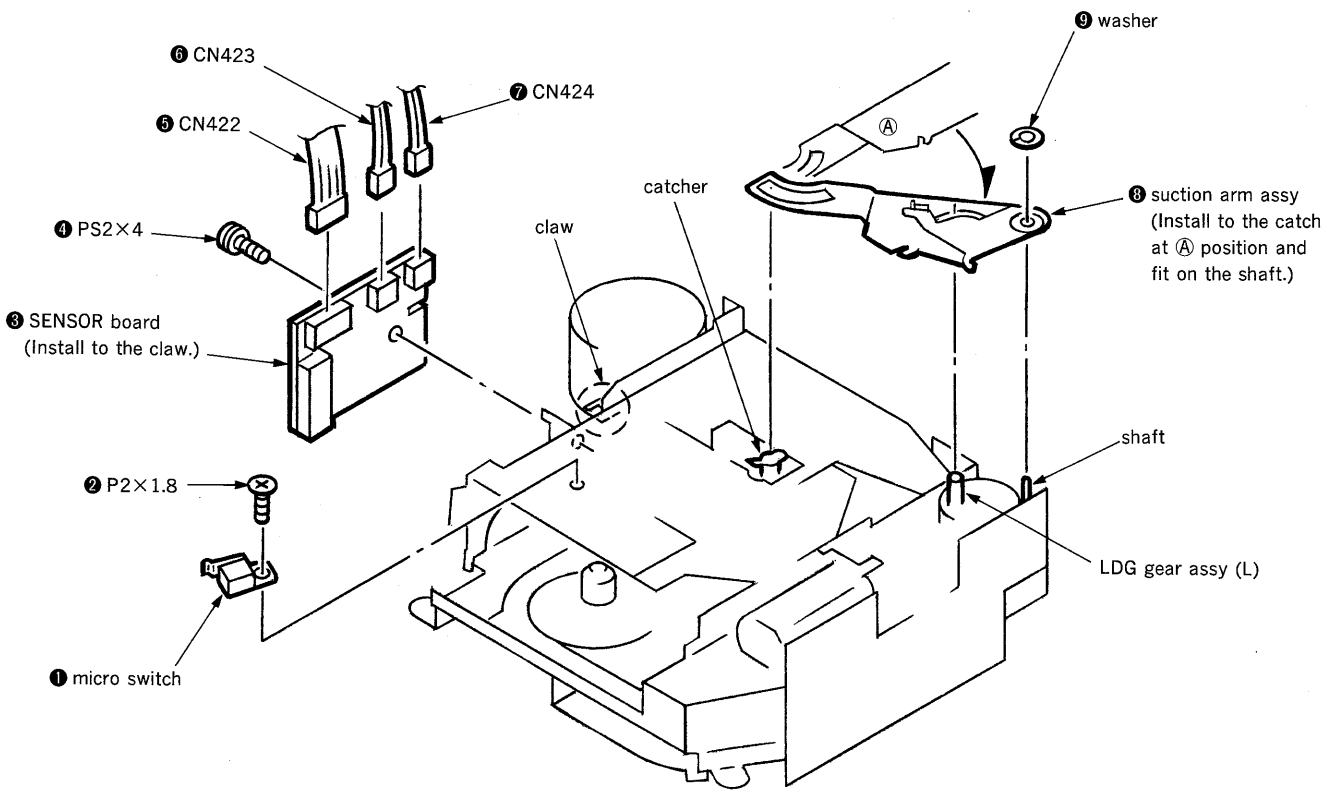
3-17. HANGER BRACKET SUB ASSY



3-18. BUFFER SPRING



3-19. SUCTION ARM ASSY



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head　　Pinch roller
   Idler　　Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	35−55g•cm (0.49−0.76 oz•inch)
FWD Back Tension		1.5−4.5g•cm (0.02−0.06 oz•inch)
REV	CQ-102RC	35−55g•cm (0.49−0.76 oz•inch)
REV Back Tension		1.5−4.5g•cm (0.02−0.06 oz•inch)
FF, REW	CQ-201B	80−170g•cm (1.11−2.36 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 100g (more than 3.53 oz)
REV	CQ-403R	

SECTION 5
ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

〈Set the Test Mode〉

1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for more than two seconds.
5. Then the display indicates all lights, the test mode is set.

〈Release the Test Mode〉

1. Push the "OFF" button.

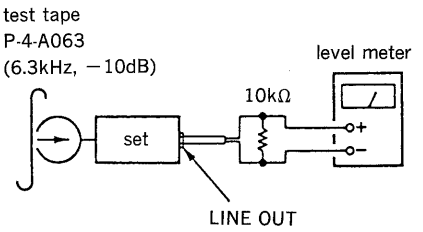
See the adjustment location from on page 32 for the adjustment.

DECK SECTION　**0dB=0.775V**

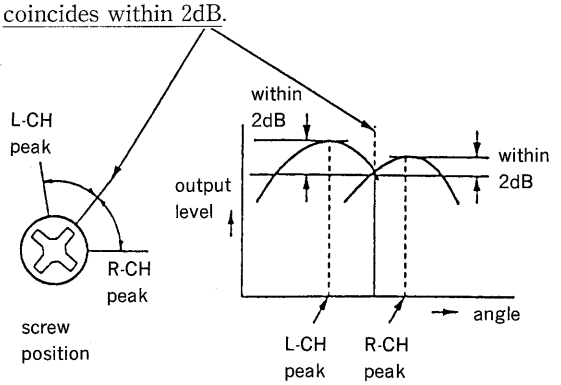
PB Head Azimuth Adjustment

Procedure:

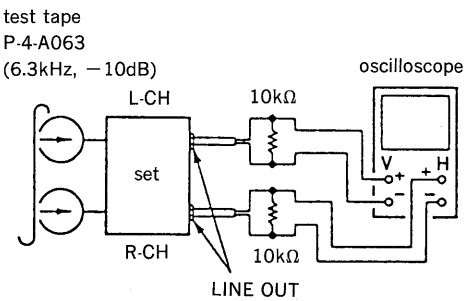
1. Put the set into the FWD PB mode.

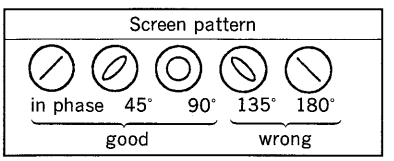


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 2dB.



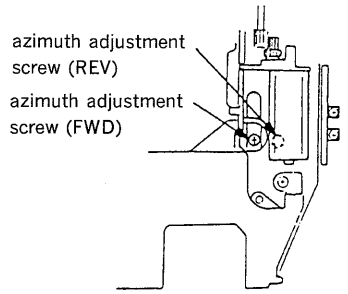
3. Check the phase in the FWD PB mode.





4. Repeat the above adjustment for the REV PB mode.

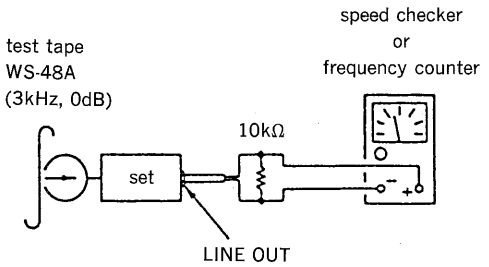
Adjustment Location : PB head



Tape Speed Adjustment

Procedure :

1. Put the set into the FWD PB mode.



Specification : Constant speed

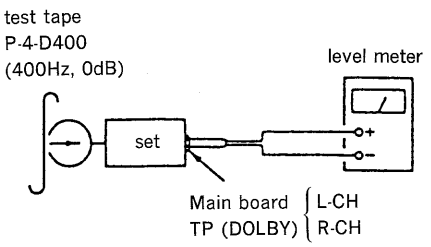
Speed checker	Frequency counter
−1.5 to +2.5%	2,955 to 3,075Hz

Adjustment Location : See page 32.

DOLBY Level Adjustment

Setting :

SHIFT button	: ON (light up SET UP and P. MODE)
Preset [3] (P. MODE) button	: NR off
SOUND (SUB) button	: 63 (Maximum)
SOUND (BAS) button	: Center
SOUND (TRE) button	: Center
SOUND (BAL) button	: Center
SOUND (FAD) button	: Center
SOUND (VOL) button	: 63 (Maximum)



Procedure :

1. Put the set into the FWD PB mode.
2. Adjust RV301 (L-CH) and RV401 (R-CH) so that level meter reading is −6±1 dB (0.35 to 0.43V).

Adjustment Location : See page 32.

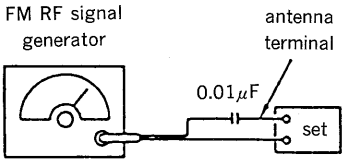
TUNER SECTION | 0dB=1μV

Cautions during repair
When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting :

SOURCE button : FM
FREQUENCY SELECT switch : FM 50K

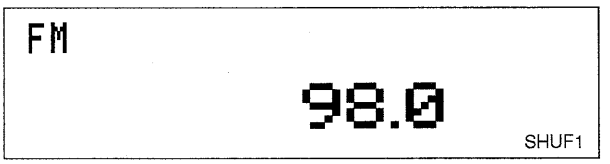


Carrier frequency : 98.0MHz
Output level : 22dB (12.6μV)
Mode : mono
Modulation : 1kHz, 22.5kHz deviation (30%)

Procedure :

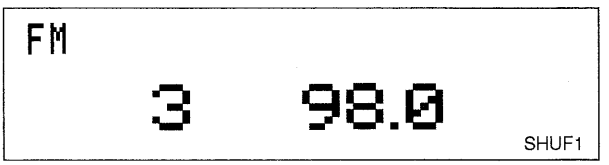
1. Set to the test mode. (See page 29.)
2. Push the [SOURCE] button and set to FM.

Display



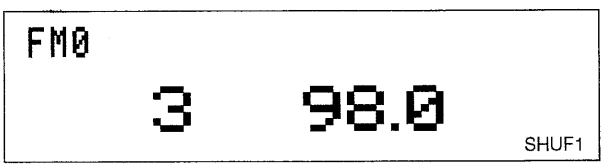
3. Push the preset [3] button.

Display



4. Adjust with the volume RV2 on TU10 so that the "FM" indication turns to "FM0" indication on the display window.
   But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

Display

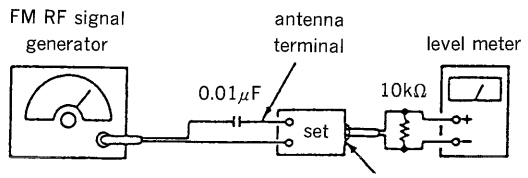


Adjustment Location : See page 32.

FM Stereo Separation Adjustment

Setting :

SOURCE button : FM
FREQUENCY SELECT switch : FM 50K



Carrier frequency : 98.0MHz
Output level : 70dB (3.2mV)
Mode : stereo
Modulation : main : 1kHz, 33.75kHz deviation (45%)
sub : 1kHz, 33.75kHz deviation (45%)
19kHz pilot : 1kHz, 7.5kHz deviation (10%)

Procedure :

FM stereo signal generator output channel	Level meter connection	Level meter reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU10 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU10 for minimum reading.

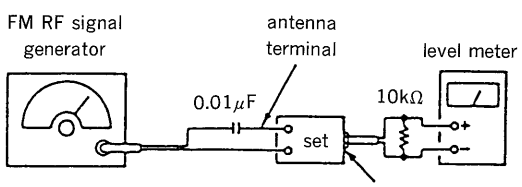
L-CH Stereo separation : Ⓐ−Ⓑ
R-CH Stereo separation : Ⓒ−Ⓓ
The separations of both channels should be equal.

Adjustment Location : See page 32.

FM Noise Focus Adjustment

Setting :

SOURCE button : FM
FREQUENCY SELECT switch : FM 50K



Carrier frequency : 98.0MHz
Output level : 60dB (1mV)
Mode : stereo
Modulation : 1kHz, 75kHz deviation (100%)

Procedure :

1. Tune the 98.0MHz.
2. The then output level is supposing that (A) dB.
3. Adjust with the volume RV3 on TU10 so that the output level is (A)−32±2dB then signal generator input set to −20dB.

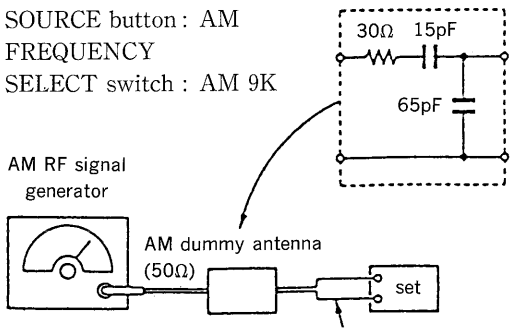
Specification : Separation more than 30dB

Adjustment Location : See page 32.

AM Auto Scan/Stop Level Adjustment

Setting :

SOURCE button : AM
FREQUENCY SELECT switch : AM 9K

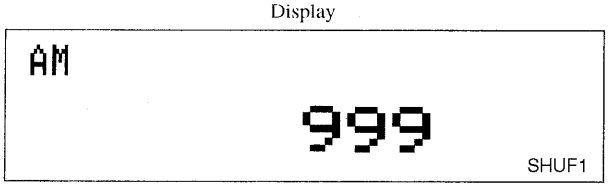


Carrier frequency : 999kHz
30% amplitude modulation by 1kHz signal
Output level : 33dB (44.7μV)

Procedure :

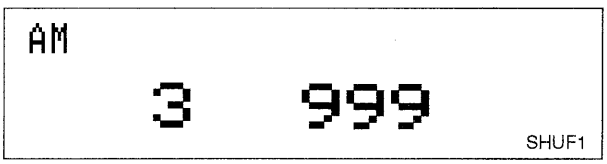
1. Set to the test mode. (See page 29.)
2. Push the [SOURCE] button and set to AM.

Display



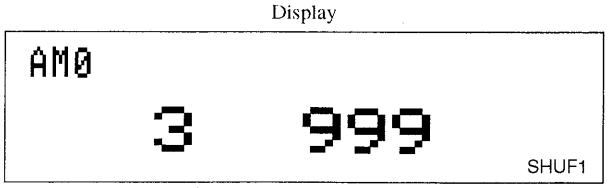
3. Push the preset [3] button.

Display



4. Adjust with the volume RV1 on TU10 so that the "AM" indication turns to "AM0" indication on the display window.
But, in case of already indicated "AM0", turn the RV1 so that put out light "0" indication and adjustment.

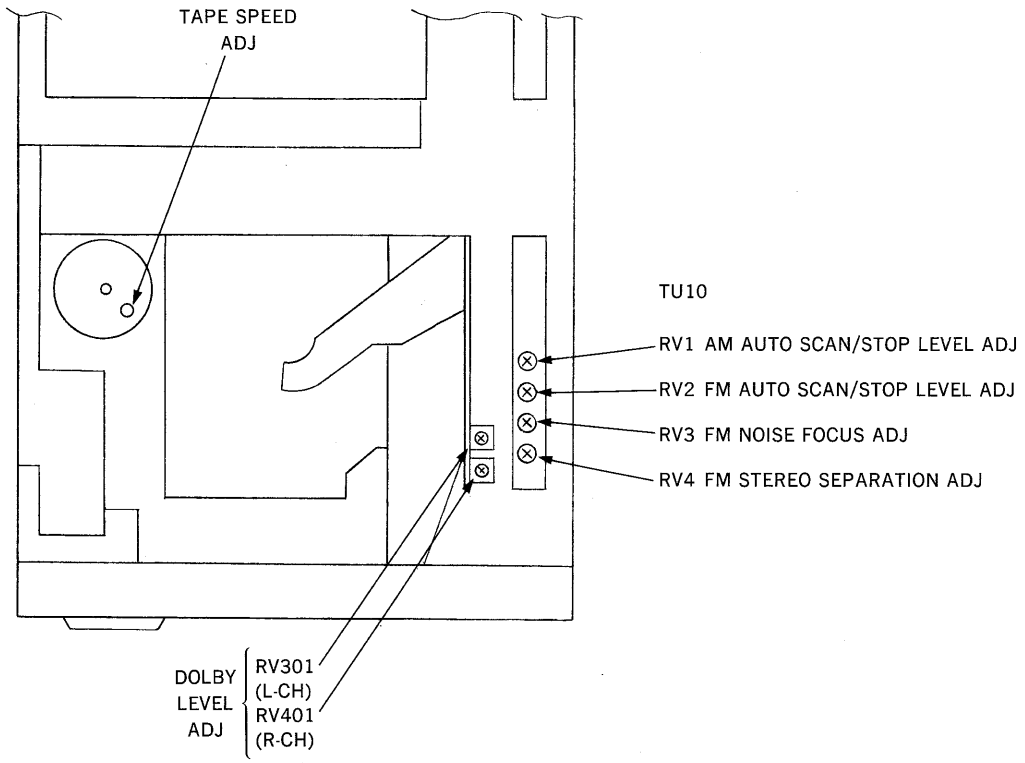
Display



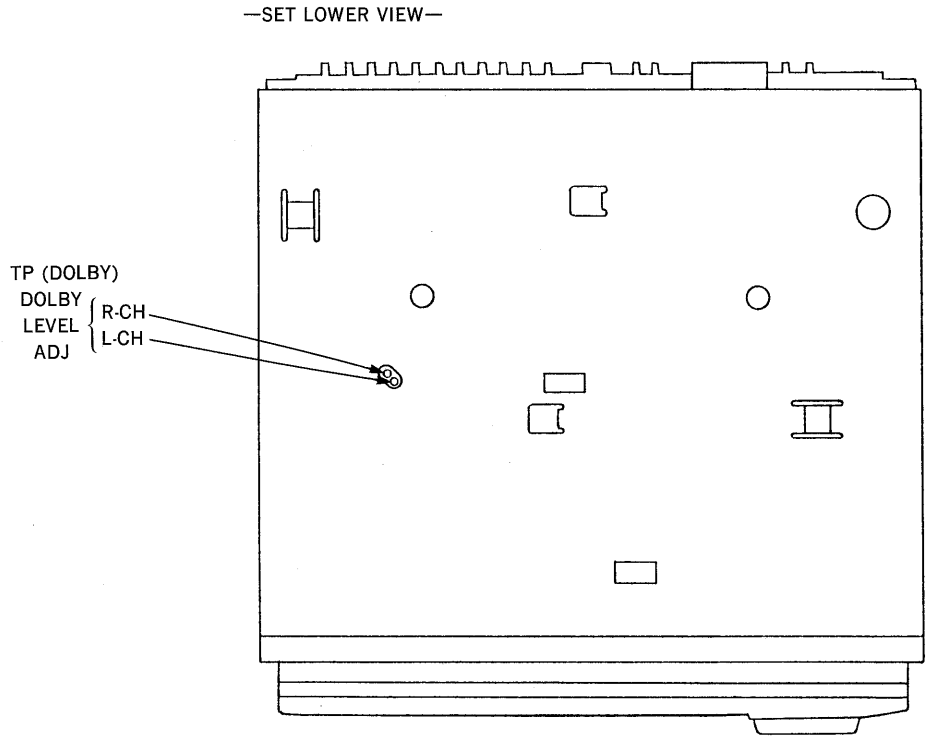
Adjustment Location : See page 32.

Adjustment Location :

—SET UPPER VIEW—



—SET LOWER VIEW—



SECTION 6
DIAGRAMS

6-1. IC PIN DESCRIPTIONS

• IC501 μPD78078GF-030-3BA (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	VOLCE	O	Electric volume serial chip enable output
2	VOLCKO	O	Electric volume serial clock output
3	VOLSO	O	Electric volume serial data output
4	SUBCE	O	Sub volume serial chip enable output
5	SUBCKO	O	Sub volume serial clock output
6	SUBSO	O	Sub volume serial data output
7	$\overline{\text{EQSEL}}$	I	First setting for with/without of equalizer connection.
8	RAMBU	I	Reset detection input of RAM.
9	GND	—	GND
10	X OUT	—	Main system clock oscillator output (5MHz)
11	X IN	—	Main system clock oscillator input (5MHz)
12	VDD	—	Power supply terminal
13	XT OUT	—	Sub crystal oscillator output (32.768kHz)
14	XT IN	—	Sub crystal oscillator input (32.768kHz)
15	$\overline{\text{RESET}}$	—	Reset input
16	SIRCS	I	Remote commander signal input
17	BU IN	I	Back-up power detection input
18	KEYACK	I	Key input acknowledge
19	PW SEL	I	Power select first setting
20	$\overline{\text{ACCIN}}$	I	Accessory power detection input
21	$\overline{\text{TELMUT}}$	I	Telephone mute detection input
22	$\overline{\text{NOSESW}}$	I	Mounting detection input of front panel.
23	AVDD	—	Power supply terminal of A/D converter.
24	AVREF0	—	Reference power supply terminal of A/D converter.
25	KEYIN0	I	Key input
26	KEYIN1	I	Key input
27	FNCSEL0	I	First setting of slave function select. Connect to GND in this set.
28	FNCSEL1	I	First setting of slave function select. Connect to GND in this set.
29	$\overline{\text{TVSEL}}$	I	With/without of TV control function. Connect to GND in this set.
30	RC IN0	I	Rotary commander input
31	FP POS0	I	Front panel position signal detection input
32	FP POS1	I	Front panel position signal detection input
33	AVSS	—	GND
34	$\overline{\text{LCDANG}}$	O	LCD angle control output
35	—	—	Not used.
36	AVREF1	—	Reference power supply terminal of A/D converter.
37	FP POS2	I	Front panel position signal detection input
38	FP POS3	I	Front panel position signal detection input
39	LCDCE2	O	LCD chip enable output
40	GND	—	GND
41	NIL	I	Connect to GND.
42	LCDSO	O	LCD serial data output
43	LCDCKO	O	LCD serial clock output
44	LCDCE1	O	LCD chip enable output
45	$\overline{\text{LCDINH}}$	O	LCD blank display control output
46	UNISI	I	Serial data input
47	UNISO	O	Serial data output
48	UNICKI	I	Serial clock input

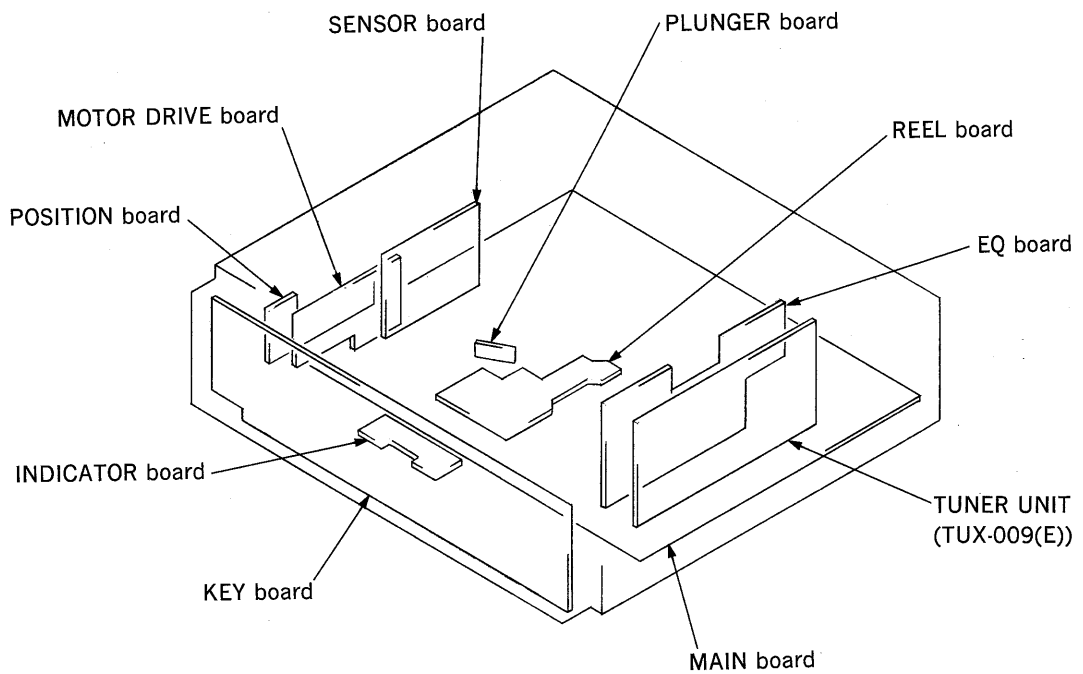
Pin No.	Pin Name	I/O	Pin Description
49	UNICKO	O	Serial clock output
50	$\overline{\text{BUSON}}$	O	BUS ON control output
51	$\overline{\text{SYSRST}}$	O	SYSTEM RESET control output
52	RE IN1	I	Rotary encoder input
53	RE IN0	I	Rotary encoder input
54	LM LOD	O	Loading motor control output (Loading direction)
55	LM EJ	O	Loading motor control output (Eject direction)
56	TAPE ON	O	Tape power control output
57	CM ON	O	Capstan motor control output
58	PL ON	O	Plunger control output
59	NCO	—	Not used.
60	PW ON	O	System power control output
61	FP OPEN	O	Front panel open motor control output
62	FP CLOSE	O	Front panel close motor control output
63	AMPON	O	Power amplifier power control output. Not used in this set.
64	ILLON	O	Illumination power control output
65	DOLON	O	DOLBY NR control output
66	$\overline{\text{AMSIN}}$	I	Music with/without detection input at AMS.
67	REL T	I	Forward direction rotation detection input of reel table.
68	REL S	I	Reverse direction rotation detection input of reel table.
69	POS0	I	Tape position signal detection input
70	POS1	I	Tape position signal detection input
71	GND	—	GND
72	POS2	I	Tape position signal detection input
73	POS3	I	Tape position signal detection input
74—77	NCO	—	Not used.
78	EL ON	O	EL power ON/OFF
79	MTLIN	I	METAL control input
80	DOL-C	O	DOLBY B/C select control output
81	TAPMUT	O	Tape mute control output
82	$\overline{\text{CSW}}$	I	Cassette tape with/without detection input
83	$\overline{\text{AMTLSEL}}$	I	With/without first setting of AUTO METAL function. Connect to GND in this set.
84	NCO	—	Not used.
85	ILL. IN	I	Illumination control input
86	FWD/$\overline{\text{REV}}$	I	Forward/reverse detection input
87	DIMMER	O	Dimmer control output
88	BEEP	O	Beep control output
89	COLOR	O	Illumination color select control output
90	$\overline{\text{AD ON}}$	O	Power control output of A/D converter.
91	$\overline{\text{TESTIN}}$	I	Test mode setting input
92	RC IN1	I	Rotary commander input
93	MUTE	O	System mute control output
94	$\overline{\text{CAUTION}}$	I	Caution alarm function input. Connect to GND in this set.
95	$\overline{\text{TIRIND}}$	O	TIR indicator control output. Connect to GND in this set.
96	DOORIND	O	Cassette door lighting ON/OFF control output
97, 98	NIL	—	Connect to GND.
99	D-B/$\overline{\text{BC}}$	I	DOLBY B/C input. Connect to GND in this set.
100	DIMSEL	I	DIMMER input. Connect to GND in this set.

• IC101 MN1883220S4B3 (TUNER SYSTEM CONTROL)

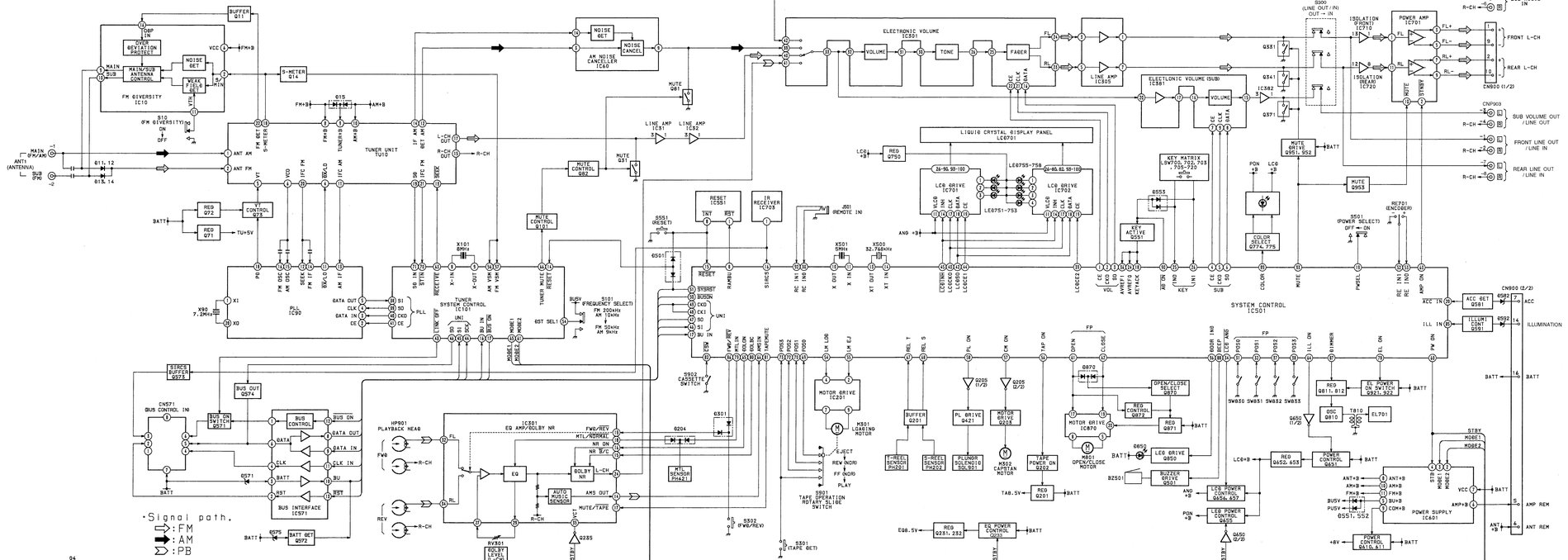
Pin No.	Pin Name	I/O	Pin Description
1—6	NC	—	Not used. (Open)
7	VDD	—	Power supply terminal (+5V)
8	X-IN	—	Clock input (8MHz)
9	X-OUT	—	Clock output (8MHz)
10	GND	—	GND
11	XT-IN	—	Not used. (Connect to GND.)
12	XT-OUT	—	Not used. (Open)
13	(EX2)	—	Not used. (Connect to GND.)
14	$\overline{\text{RESET}}$	I	Reset input
15	(RDSCKI)	I	RDS CLK signal input. (Fixed at "L".)
16	BU-IN	I	Back-up power supply detection input. "H" : Back-up ON
17	$\overline{\text{BUSON}}$	I	BUS interface ON/OFF selection input from the System Control (IC501).
18—29	NC	—	Not used. (Open)
30	(RDSSI)	I	RDS DATA signal input. (Fixed at "L".)
31	—	—	Not used. (Fixed at "L".)
32—35	NC	—	Not used. (Open)
36, 37	—	—	Not used. (Connect to GND.)
38	PLLSI	I	Data input from the PLL (IC90).
39	PLLSO	O	Data output to the PLL (IC90).
40	PLLCKO	O	Clock output to the PLL (IC90).
41	PLLCE	O	Chip enable output to the PLL (IC90).
42	UNIREQ	O	BUS interface request output. Terminal for requesting communication requests at "H".
43	$\overline{\text{LNKOFF}}$	O	BUS interface link ON/OFF selection output. "H" : LINK OFF
44	UNICKI	I	Serial clock input from the System Control (IC501).
45	UNISI	I	Data input from the BUS interface (IC571).
46	UNISO	O	Data output to the BUS interface (IC571).
47	VDD	—	Power supply terminal (+5V)
48	AVDD	—	Power supply terminal (+5V)
49	VREF	I	Reference voltage input terminal of A/D conversion.
50, 51	—	—	Not used. (Connect to GND.)
52	SRAM-RST	I	SRAM reset input
53	MUTSEL	—	Not used. (Connect to GND.)
54	DSTSEL1	I	Desination selection input terminal. (Fixed at "H".)
55	DSTSEL0	I	Desination selection input terminal. (Fixed at "H".)
56	AM-VSM	I	AM S meter voltage detection input
57	FM-VSM	I	FM S meter voltage detection input. Uses the A/D conversion functions during BTM and RDS.
58	AVREF−	—	Connect to GND.
59	AVSS	—	GND
60	GND	—	GND
61	MODE2	O	Tuner ON/OFF selection output to the Power Supply (IC601).
62	DX/$\overline{\text{LO}}$	—	Not used. (Open)
63	RECEIVE	I	Receive input. Input level "L" when change the frequency.
64	AM-ON	—	Not used. (Fixed at "L".)
65	MODE1	O	FM ON/OFF selection output to the Power Supply (IC601).

Pin No.	Pin Name	I/O	Pin Description
66	TUNER-MUTE	O	Muting control signal output
67	AF-SEK	O	Not used. (Open)
68	—	—	Not used. (Fixed at "L".)
69	NC	—	Not used. (Open)
70	ST-IN	I	STEREO indicator control input
71	SD-IN	I	SD input
72—80	NC	—	Not used. (Open)

6-2. CIRCUIT BOARDS LOCATION



6-3. BLOCK DIAGRAM



● Semiconductor Location

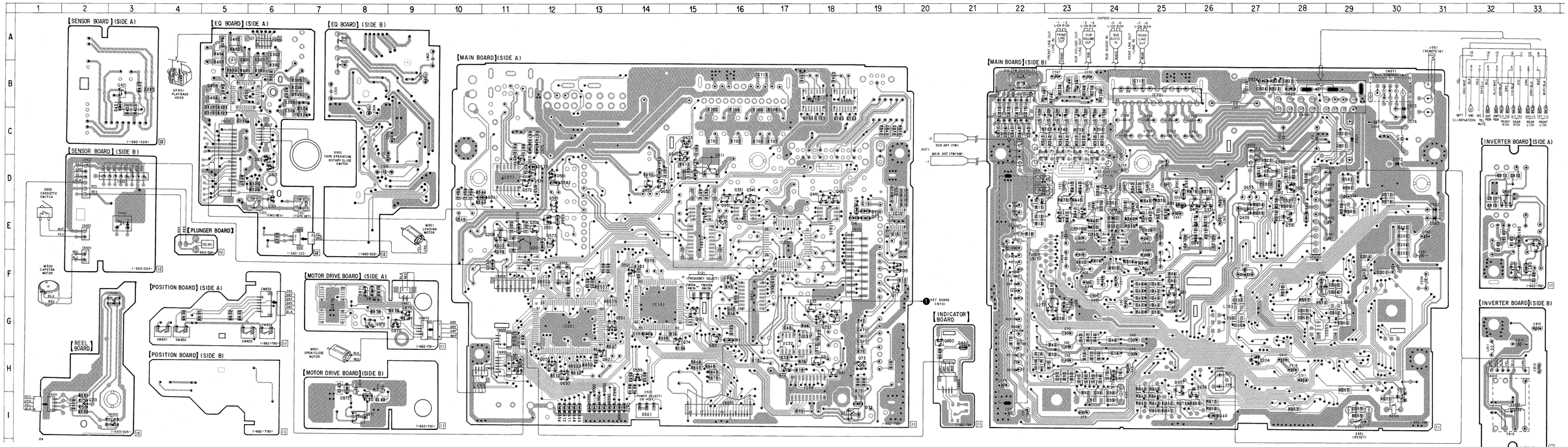
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D11	E-19	D672	I-12	Q81	F-25
D12	E-18	D810	E-33	Q82	H-15
D13	E-19	D811	F-33	Q101	G-15
D14	E-18	D850	H-21	Q201	E-12
D15	F-19	D870	G-9	⟨Q201⟩	I-2
D71	I-19	D871	F-8	Q202	E-12
D72	H-24	D872	F-8	Q203	E-11
D81	G-16	D873	I-8	Q205	H-12
D101	G-14	D874	I-8	Q231	G-18
D202	E-11	D901	C-29	Q232	G-23
D203	F-11	D903	E-28	Q233	G-18
D204	H-27	D923	B-28	Q235	G-18
D231	G-23	D924	B-27	Q331	D-16
D301	E-6	D951	E-25	Q341	D-16
D302	D-6	D953	D-25	Q371	E-26
D303	D-6			Q421	B-3
D421	B-3	IC10	E-19	Q431	D-18
D501	F-14	IC31	G-17	Q441	D-18
D551	E-12	IC32	G-17	Q471	E-26
D552	E-12	IC60	G-16	Q501	I-30
D553	H-14	IC90	H-17	Q551	G-13
D554	I-12	IC101	G-14	Q571	D-11
D561	D-11	IC201	F-12	Q572	D-11
D562	E-31	IC301	E-17	Q573	E-12
D563	E-31	(IC301)	B-5	Q574	D-12
D571	C-12	IC302	E-24	Q581	E-12
D572	D-30	IC305	E-16	Q591	E-28
D573	C-30	IC381	E-15	Q610	D-15
D574	C-30	IC382	E-15	Q611	D-15
D575	C-12	IC405	E-18	Q650	H-12
D576	E-12	IC501	G-12	Q651	D-14
D577	D-12	IC551	G-29	Q652	D-14
D581	D-12	IC571	D-11	Q653	D-27
D582	D-12	IC601	E-28	Q655	E-27
D591	D-28	IC701	B-25	Q656	H-26
D592	D-27	IC710	B-18	Q657	H-25
D610	D-15	IC720	B-18	Q810	D-32
D651	D-14	IC870	G-7	Q811	F-33
D660	I-26			Q812	E-33
D661	I-13	PH201	G-3	Q850	H-20
D662	I-13	PH202	I-3	Q870	G-9
D663	I-12	PH421	E-3	Q871	I-8
D664	I-12			Q872	G-8
D665	I-13	Q11	F-19	Q921	H-13
D666	I-13	Q31	H-18	Q922	D-27
D667	I-13	Q41	H-18	Q951	D-16
D668	I-13	Q71	I-18	Q952	E-16
D669	I-13	Q72	H-17	Q953	C-15
D670	I-13	Q73	H-19		
D671	I-12	Q74	H-15		

( ): EQ board
⟨ ⟩: REEL board

Note :

- ● ○— : parts extracted from the component side.
- ● ——— : parts extracted from the conductor side.
- ● ● : Through hole.
- ● ▨ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)

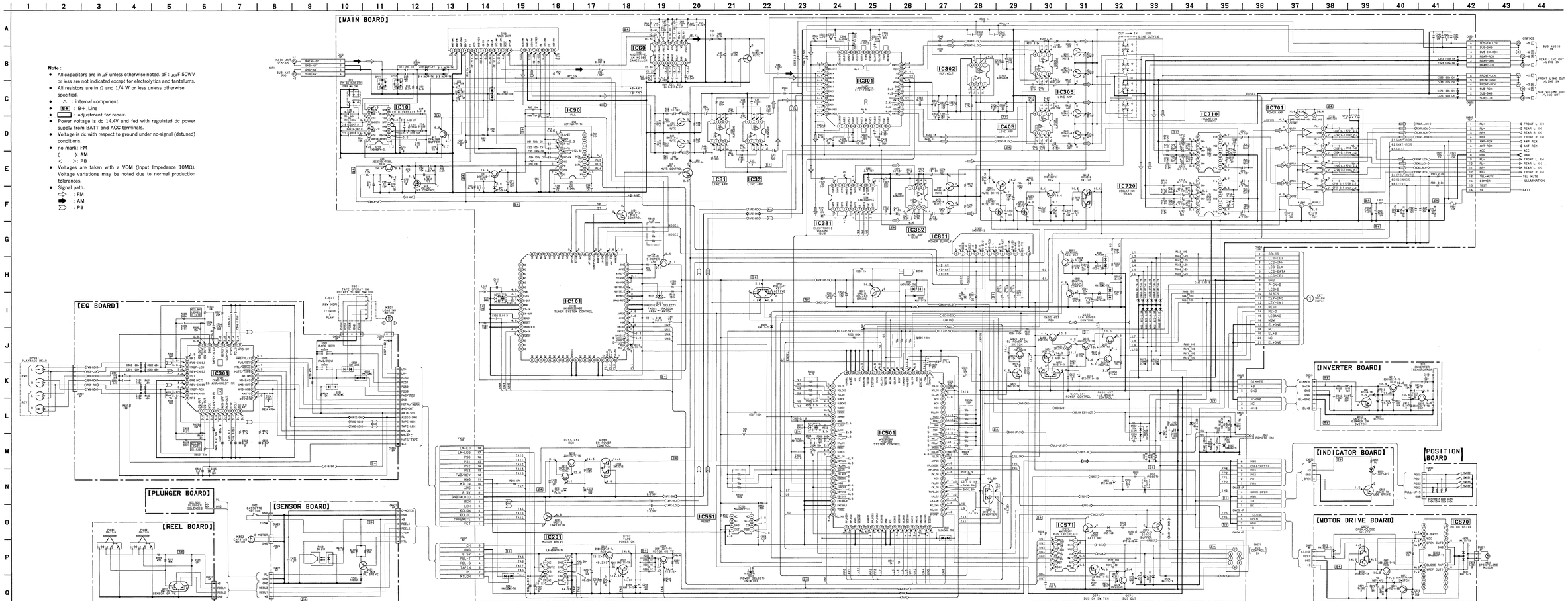
6-4. PRINTED WIRING BOARDS—MAIN SECTION— • Refer to page 41 for Note and Semiconductor Location.



6-5. SCHEMATIC DIAGRAM—MAIN SECTION— • Refer to page 57 for IC Block Diagrams.

Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B+ : B+ Line
- : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
  ( ): AM
  < >: PB
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⇨ : PB

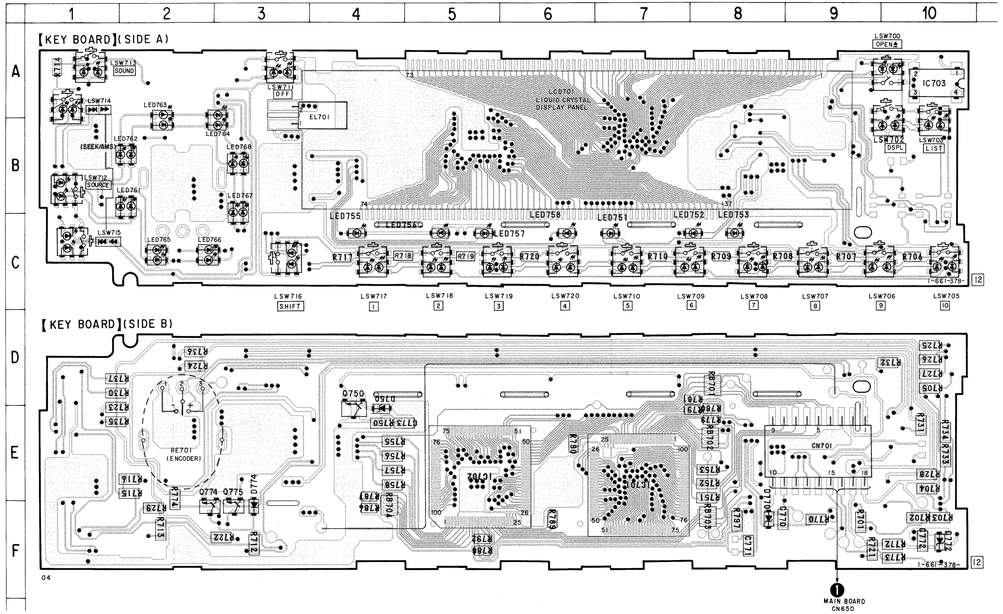


6-6. PRINTED WIRING BOARD—PANEL SECTION—

● Semiconductor Location

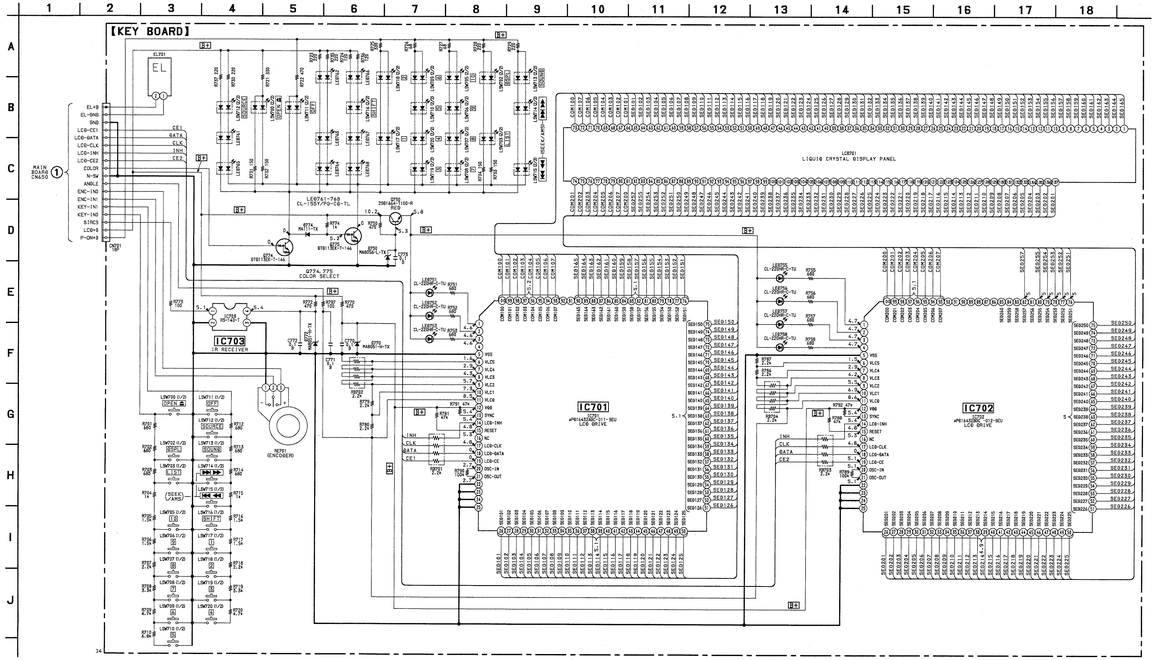
Ref. No.	Location
D750	D-4
D770	F-8
D772	F-10
D774	E-3
IC701	E-7
IC702	E-5
IC703	A-10
LED751	C-7
LED752	C-7
LED753	C-8
LED755	C-4
LED756	C-5
LED757	C-5
LED758	C-6
LED761	B-2
LED762	B-2
LED763	A-2
LED764	B-3
LED765	C-2
LED766	C-2
LED767	B-3
LED768	B-3
Q750	D-4
Q774	E-2
Q775	E-3

Note :
- ● : Through hole.
- ▬ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)



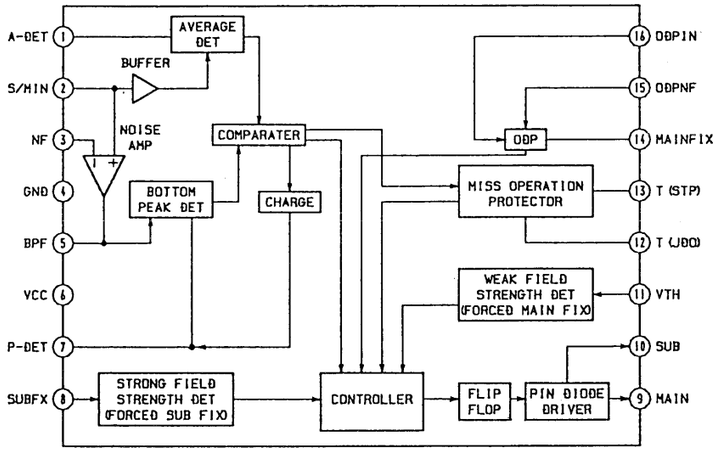
6-7. SCHEMATIC DIAGRAM—PANEL SECTION—

Note :
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

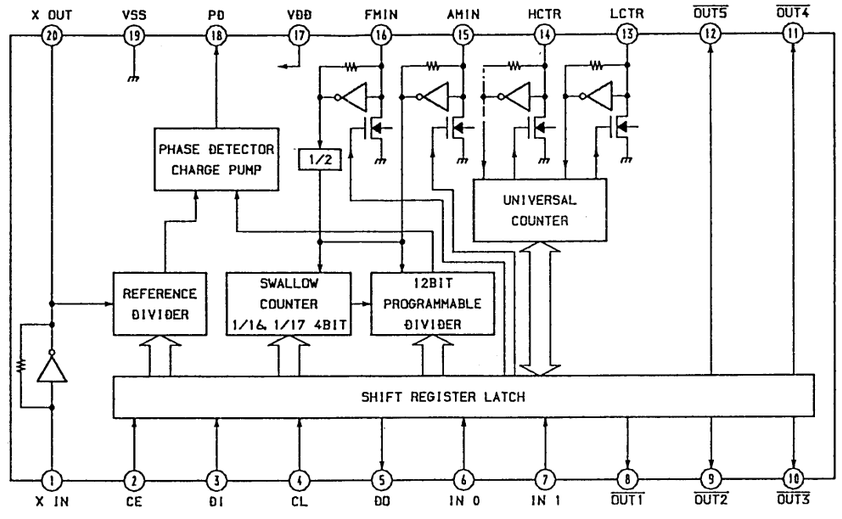


• IC Block Diagrams

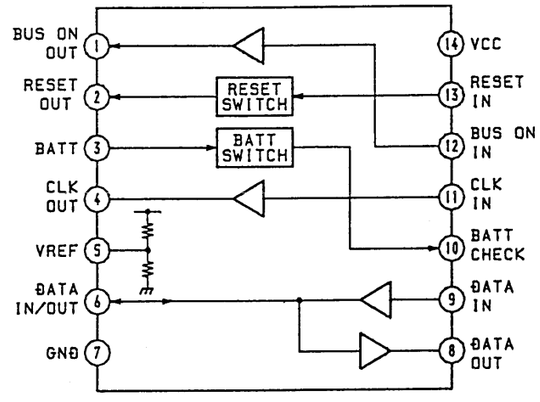
IC10 TA2083FN-EL



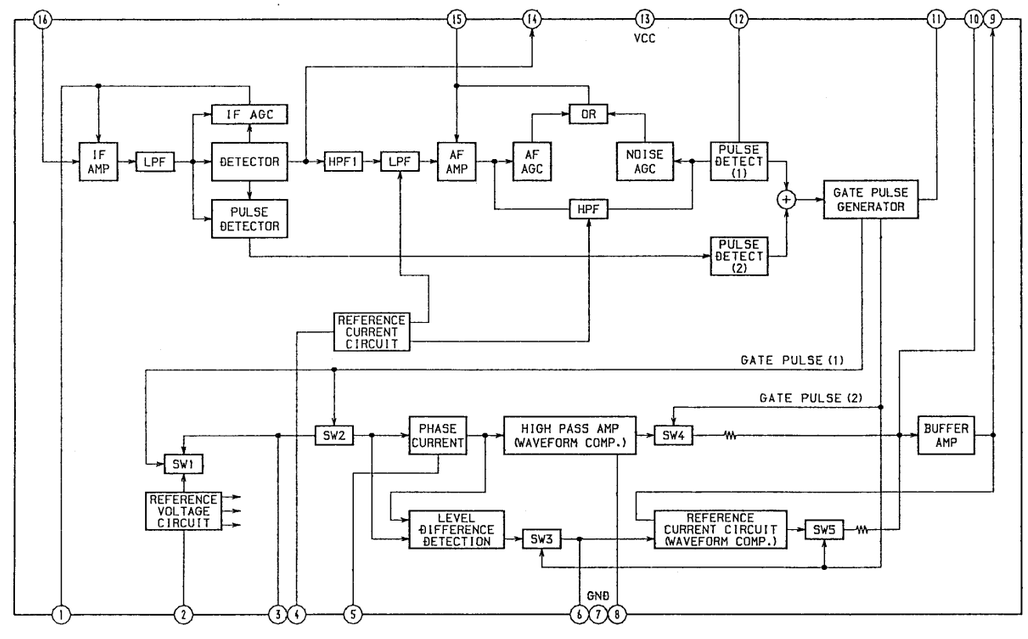
IC90 LC7216M



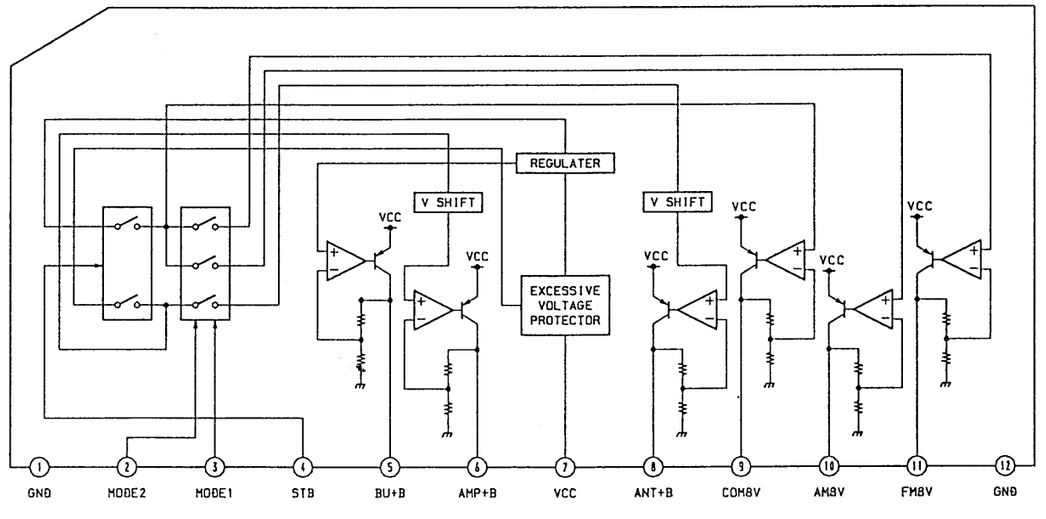
IC571 MM1175XFF



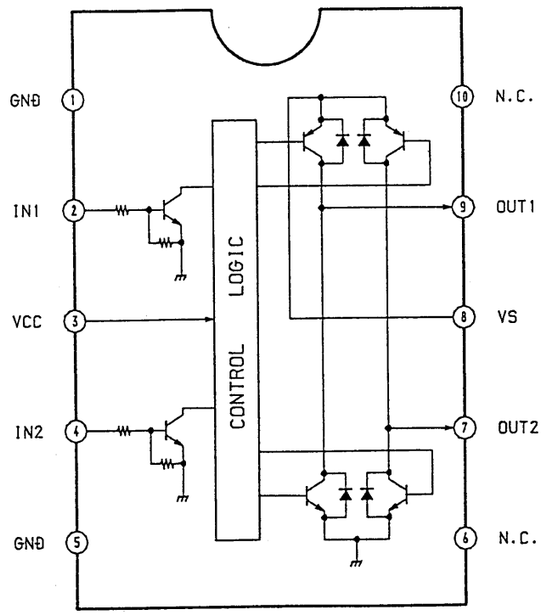
IC60 HA12181FP-EL



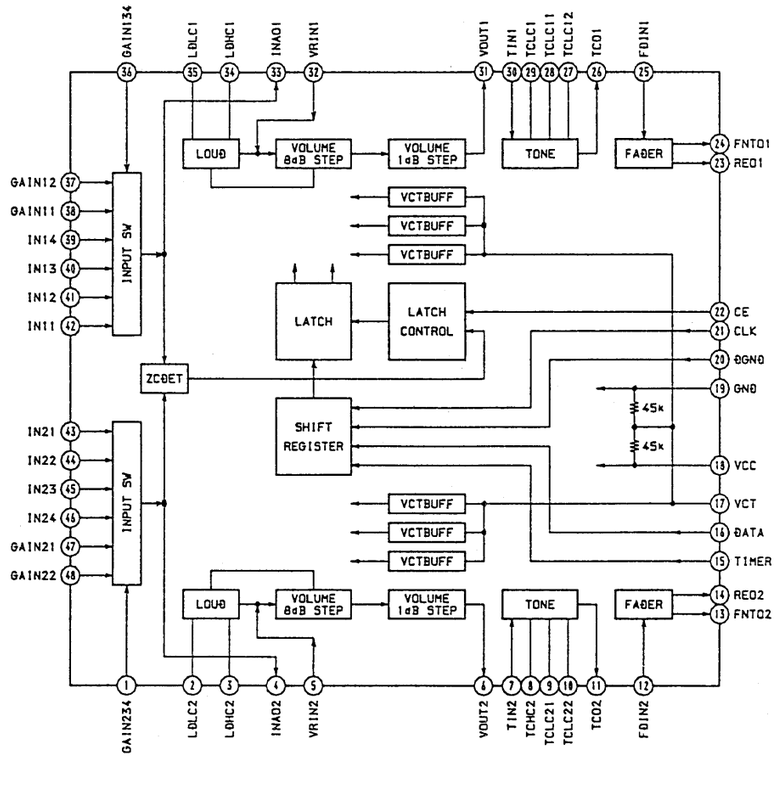
IC601 BA3918-V2



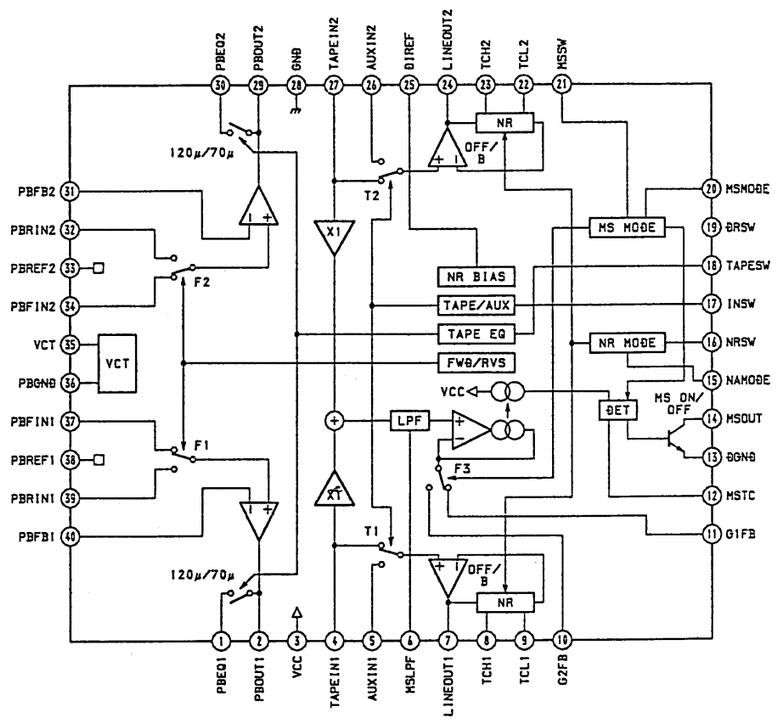
IC201 LB1638MTP-T1



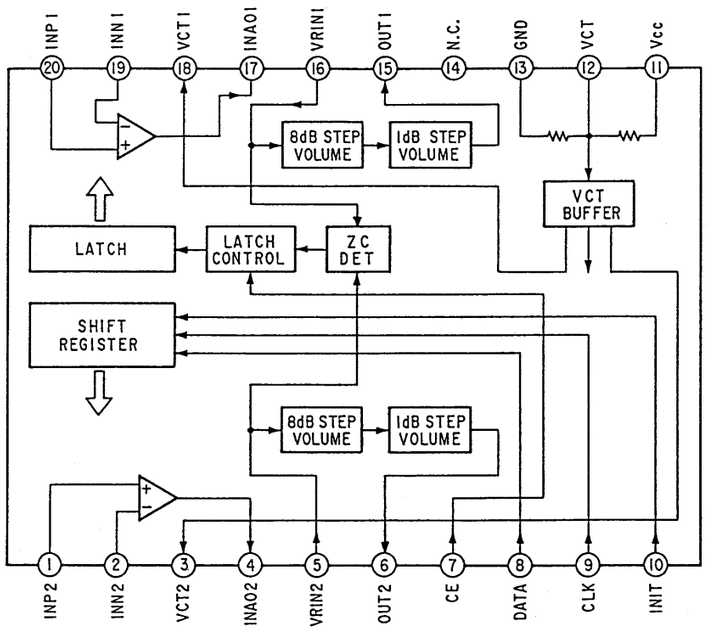
IC301 CXA1946AQ-T6 (Main Board)



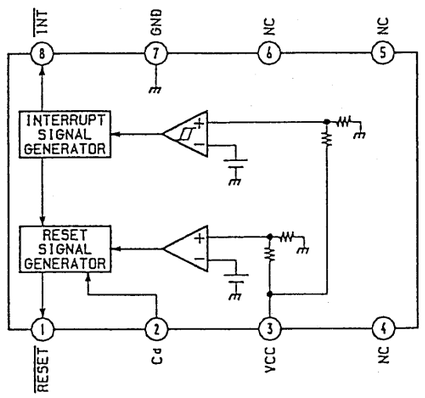
IC301 CXA2511Q-T4 (EQ Board)



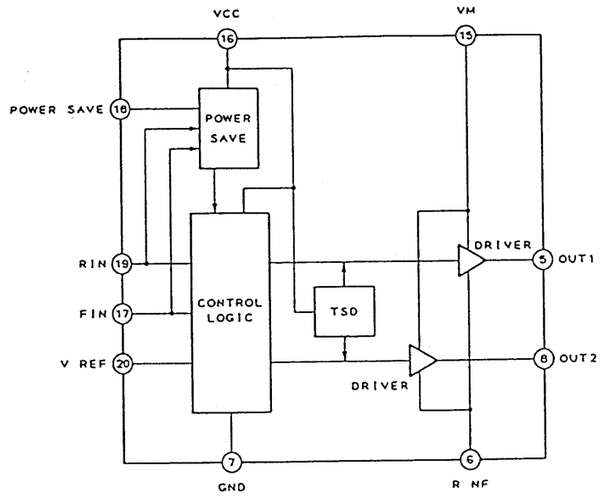
IC381 CXA1846M-T6



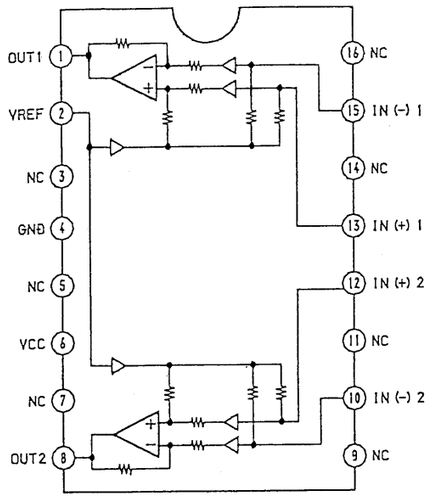
IC551 M62008FP-T1



IC870 BA6285FP



IC710, 720 TA2050F



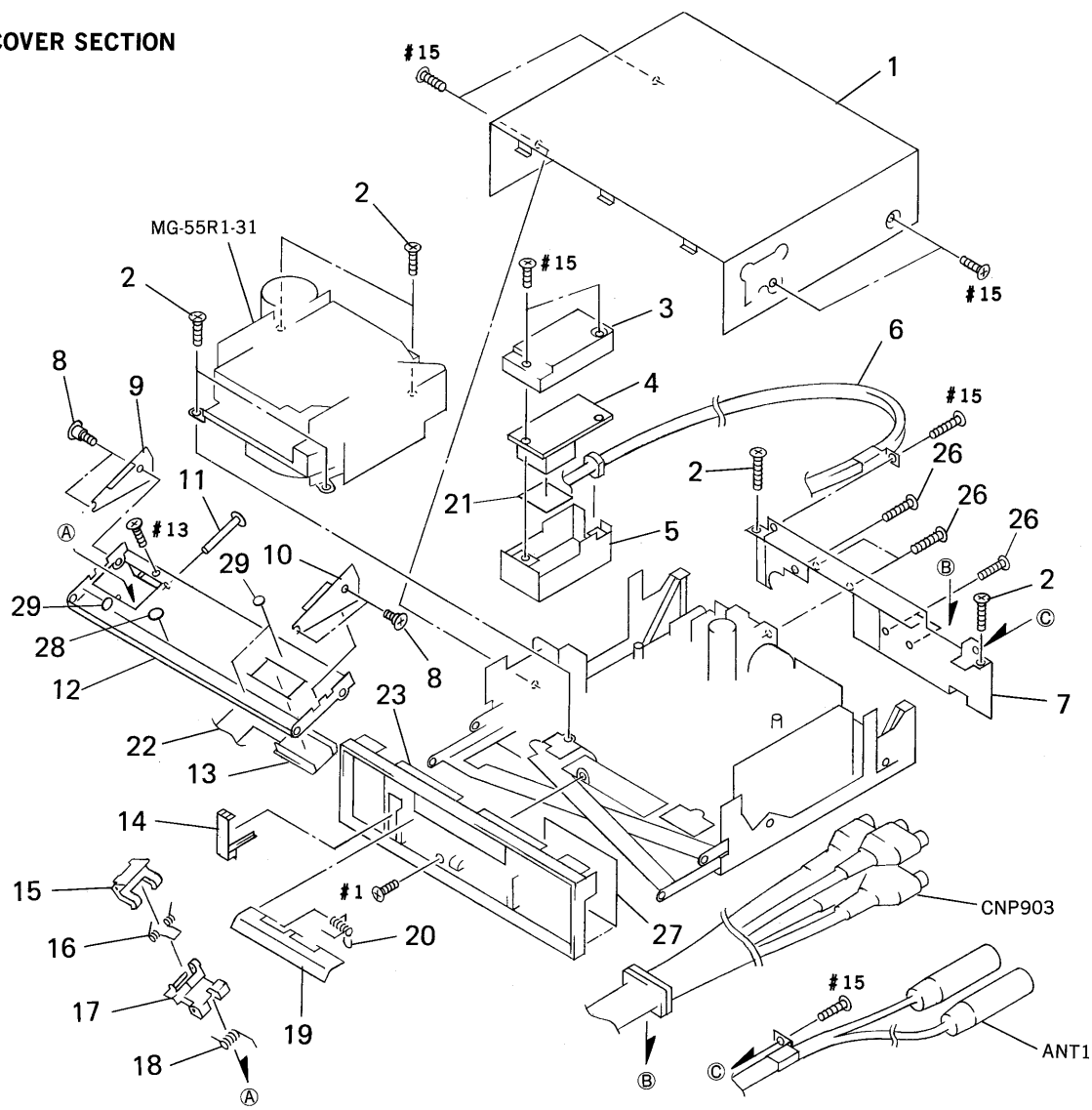
SECTION 7
EXPLODED VIEWS

SEE ADDITIONAL INFORMATION

NOTE:

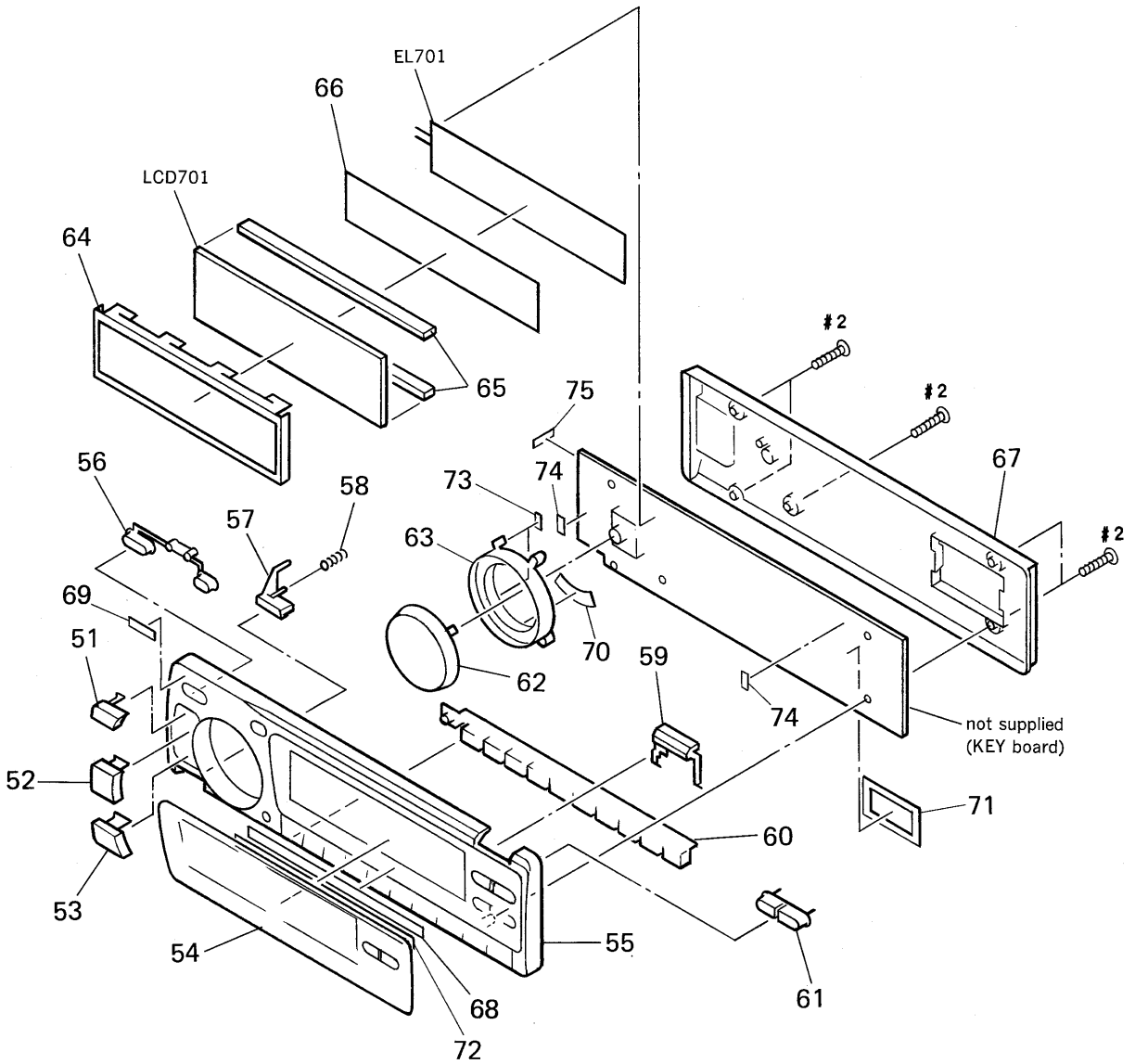
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

7-1. COVER SECTION



Ref. No.	Part No.	Description	Remark
* 1	3-934-759-21	COVER, CHASSIS	
2	3-905-560-01	SCREW (2.6X6) (CU), +PTT	
* 3	3-934-416-01	CASE (UPPER)	
* 4	A-3309-554-A	INVERTER BOARD, COMPLETE	
* 5	3-934-417-01	CASE (LOWER)	
6	1-777-180-11	CORD (WITH CONNECTOR)	
* 7	3-935-954-11	HEAT SINK	
8	3-934-764-01	SCREW, ORNAMENTAL	
9	3-934-762-01	COVER (L)	
10	3-934-763-01	COVER (R)	
11	3-934-755-01	SHAFT (LOCK)	
12	3-934-769-01	PANEL (BASE)	
13	1-778-182-11	SOCKET, CONNECTOR 18P	
14	3-934-751-01	BUTTON (RESET)	
15	3-934-756-01	ARM (LOCK)	
16	3-934-765-01	SPRING (B)	
17	3-934-757-01	HOLDER (LOCK)	
18	3-934-758-01	SPRING (A)	
19	3-934-742-01	PLATE, PROTECTION	
20	3-939-142-01	SPRING, TORSION	
21	3-938-688-01	CUSHION (TRANSFORMER)	
22	1-661-796-11	FLEXIBLE BOARD	
23	X-3372-138-1	PANEL SUB ASSY, SUB	
26	3-931-072-01	SCREW(2.6X10) (CU.C TIGHT),+PTT	
27	3-937-368-01	SHEET (COPPER LEAF)	
28	3-938-348-11	SHEET (TIR)	
29	3-938-379-01	CUSHION (BASE)	
ANT1	1-751-721-21	CORD (WITH CONNECTOR) (ANT)	
CNP903	1-777-163-41	CORD (WITH CONNECTOR) (LINE IN/OUT)	

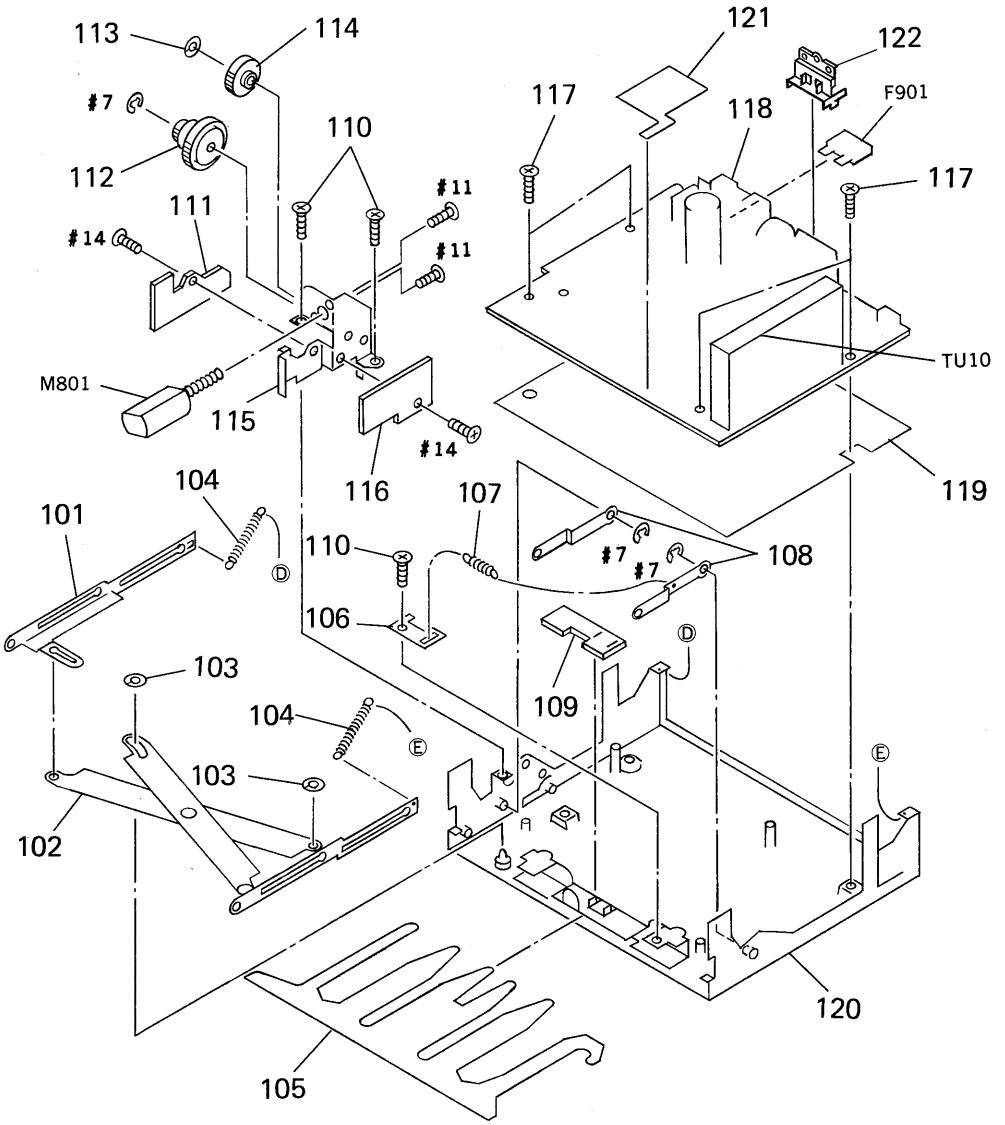
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-934-407-01	BUTTON (FF)	
52	3-934-408-01	BUTTON (SOURCE)	
53	3-934-409-01	BUTTON (REW)	
54	X-3372-443-2	PLATE ASSY, INDICATION (XR-C800)	
54	X-3372-622-1	PLATE ASSY, INDICATION (XR-C800W)	
55	3-934-403-51	PANEL, FRONT (XR-C800)	
55	3-934-403-61	PANEL, FRONT (XR-C800W)	
56	3-934-398-01	BUTTON (OFF) (XR-C800)	
56	3-934-398-11	BUTTON (OFF) (XR-C800W)	
57	3-934-410-01	BUTTON (RELEASE) (XR-C800)	
57	3-934-410-11	BUTTON (RELEASE) (XR-C800W)	
58	3-934-415-01	SPRING (RELEASE)	
59	3-934-406-01	BUTTON (OPEN) (XR-C800)	
59	3-934-406-12	BUTTON (OPEN) (XR-C800W)	
60	3-934-405-01	BUTTON (1-10) (XR-C800)	
60	3-934-405-11	BUTTON (1-10) (XR-C800W)	
61	3-934-399-01	BUTTON (DSPL)	

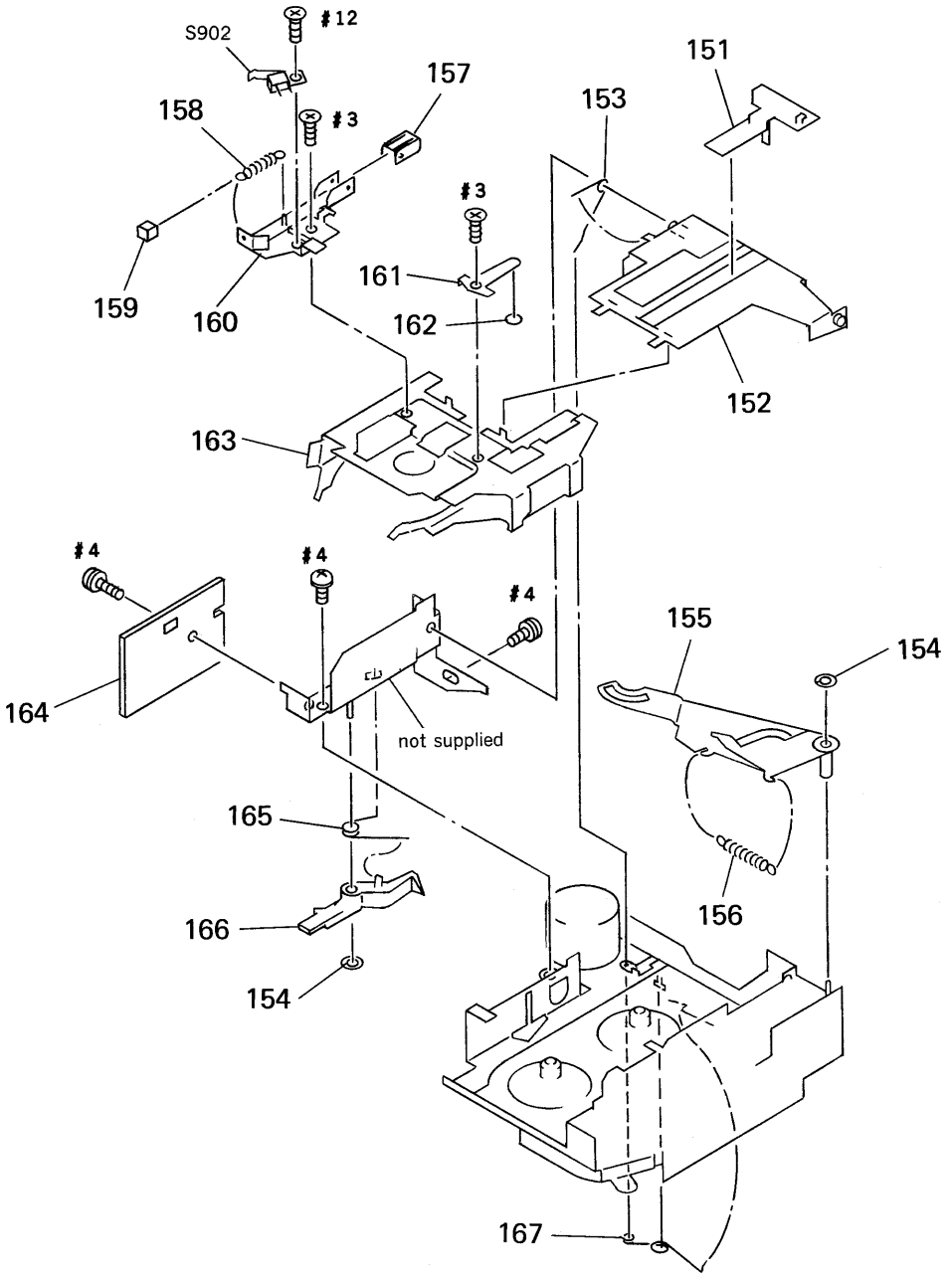
Ref. No.	Part No.	Description	Remark
62	3-934-401-01	KNOB (VOL)	
63	3-934-394-01	RING, VOL	
64	3-934-412-01	PLATE (LCD), GROUND	
65	1-778-197-11	CONNECTOR, INTER	
* 66	3-934-395-01	ILLUMINATOR (LCD)	
67	3-934-404-01	PANEL, FRONT BACK (XR-C800)	
67	3-934-404-11	PANEL, FRONT BACK (XR-C800W)	
68	3-934-396-01	ILLUMINATOR (MODE)	
69	3-904-194-01	EMBLEM (NO. 2.5), SONY	
70	3-938-010-01	SHEET (LIGHT INTERCEPTION)	
71	3-938-230-01	SHEET (BLIND)	
* 72	3-938-380-01	SHEET (MODE)	
* 73	3-939-116-01	SPACER (RING)	
74	3-327-119-01	SPACER (A)	
75	3-911-215-02	SHEET (LEAD RETAINER)	
EL701	1-517-557-11	LIGHT, ELECTRO LUMINESCENT	
LCD701	1-801-281-11	DISPLAY PANEL, LIQUID CRYSTAL	

7-3. CHASSIS SECTION



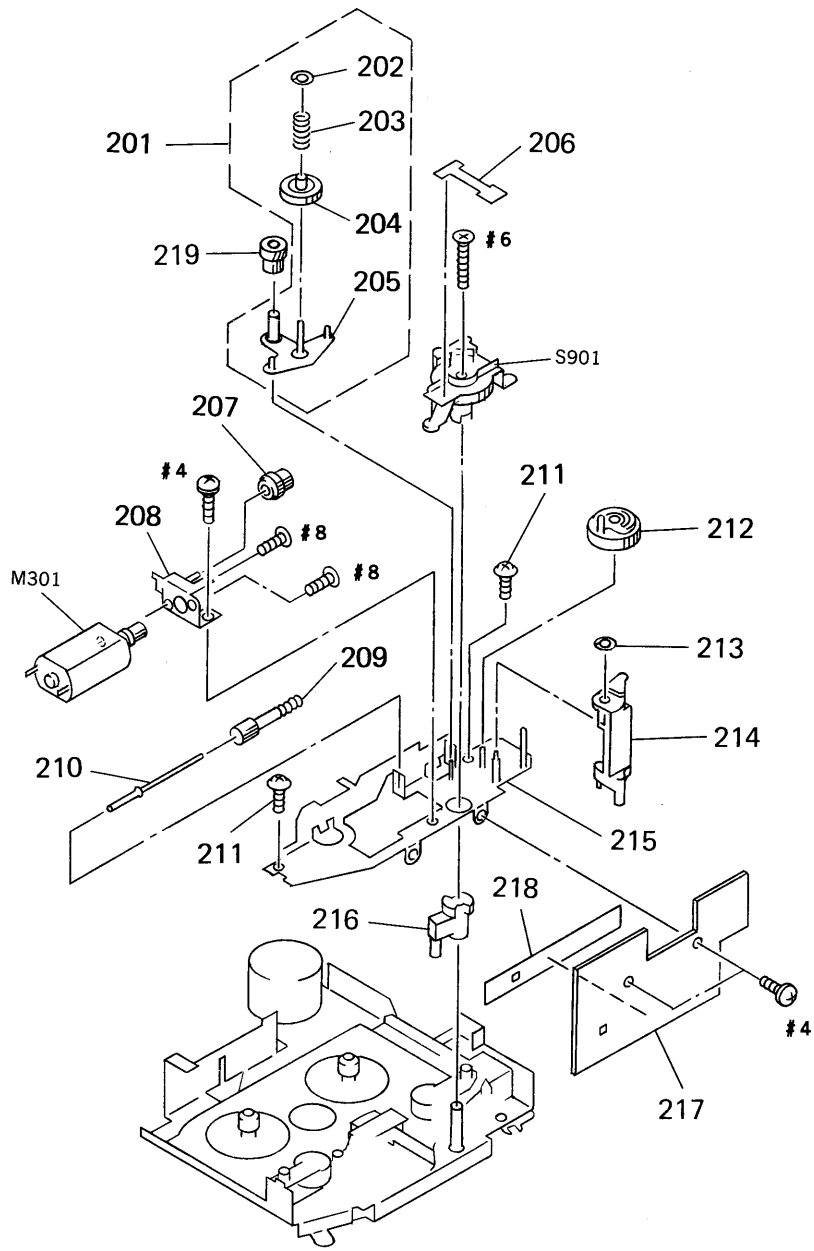
Ref. No.	Part No.	Description	Remark
101	3-934-753-01	ARM (L), SLIDE	
102	X-3371-959-1	ARM ASSY, SLIDE	
103	3-899-829-01	WASHER (SLIT)	
104	3-937-758-01	SPRING (CHASSIS)	
105	3-934-768-01	SHEET, PROTECTION	
106	3-937-767-01	BRACKET (SPRING)	
107	3-937-933-01	SPRING (ARM)	
* 108	3-934-732-01	ARM	
* 109	1-662-789-11	INDICATOR BOARD	
110	3-905-560-01	SCREW (2.6X6) (CU), +PTT	
* 111	1-662-790-11	POSITION BOARD	
112	X-3371-964-1	CLUTCH ASSY	
113	3-321-813-01	WASHER, COTTER POLYETHYLENE	
114	3-934-749-01	GEAR (2)	
* 115	X-3371-963-1	BRACKET (MOTOR) ASSY	
* 116	1-662-791-11	MOTOR DRIVE BOARD	
117	3-376-464-11	SCREW(+PTT 2.6X6),GROUND POINT	
* 118	A-3309-555-A	MAIN BOARD, COMPLETE	
* 119	3-008-183-01	SHEET, INSULATING (800)	
* 120	X-3372-858-1	CHASSIS SUB ASSY	
121	3-939-183-01	PLATE (FLEXIBLE), SHIELD	
122	3-920-606-01	BRACKET (IC)	
F901	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
M801	X-3372-497-1	MOTOR ASSY (OPEN/CLOSE)	
TU10	A-3282-020-A	TUNER UNIT (TUX-009 (E))	

7-4. MECHANISM DECK SECTION (1) (MG-55R1-31)



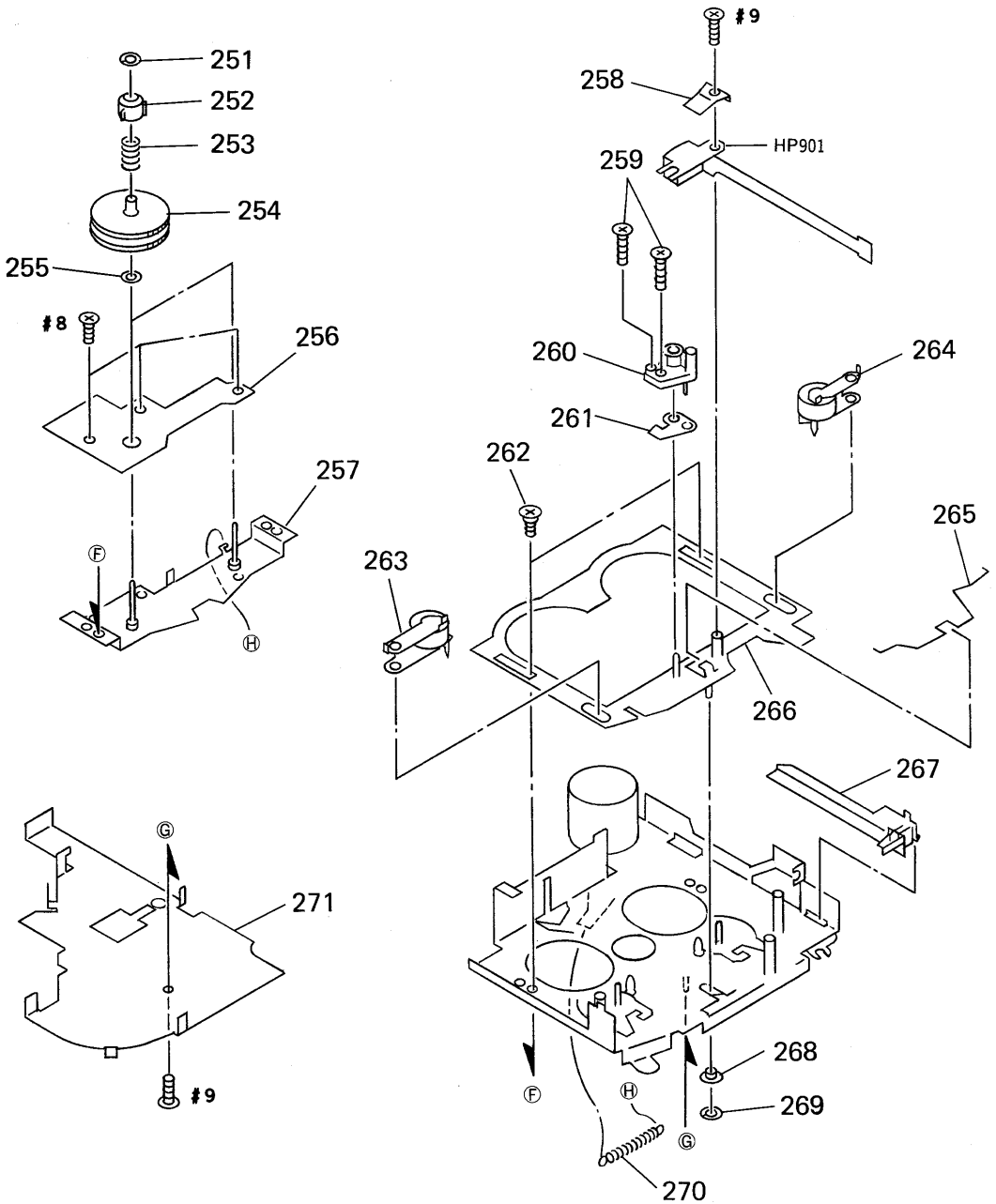
Ref. No.	Part No.	Description	Remark
151	3-344-118-01	CATCHER	
* 152	X-3362-262-1	HANGER (F) ASSY, HOUSING	
153	3-344-113-03	SPRING	
154	3-344-222-01	WASHER	
* 155	X-3344-121-1	ARM ASSY, SUCTION	
156	3-344-216-01	SPRING (SUCTION ARM), TENSION	
157	3-368-235-01	LEVER, CASSETTE DETECTION	
158	3-542-475-00	SPRING, TENSION	
159	3-936-894-01	CUSHION (COIL SPRING)	
160	X-3362-992-1	SWITCH (BKT) ASSY	
161	3-936-892-01	DETENT, HOUSING	
162	3-936-893-01	CUSHION (HOUSING)	
* 163	3-344-103-21	HOUSING, CASSETTE	
* 164	1-660-524-12	SENSOR BOARD	
165	3-344-285-01	SPRING (F), TS	
166	3-368-237-01	ARM (U), TS	
167	3-344-279-01	SPRING, BUFFER	
S902	1-572-765-11	SWITCH, MICRO (CASSETTE)	

7-5. MECHANISM DECK SECTION (2) (MG-55R1-31)



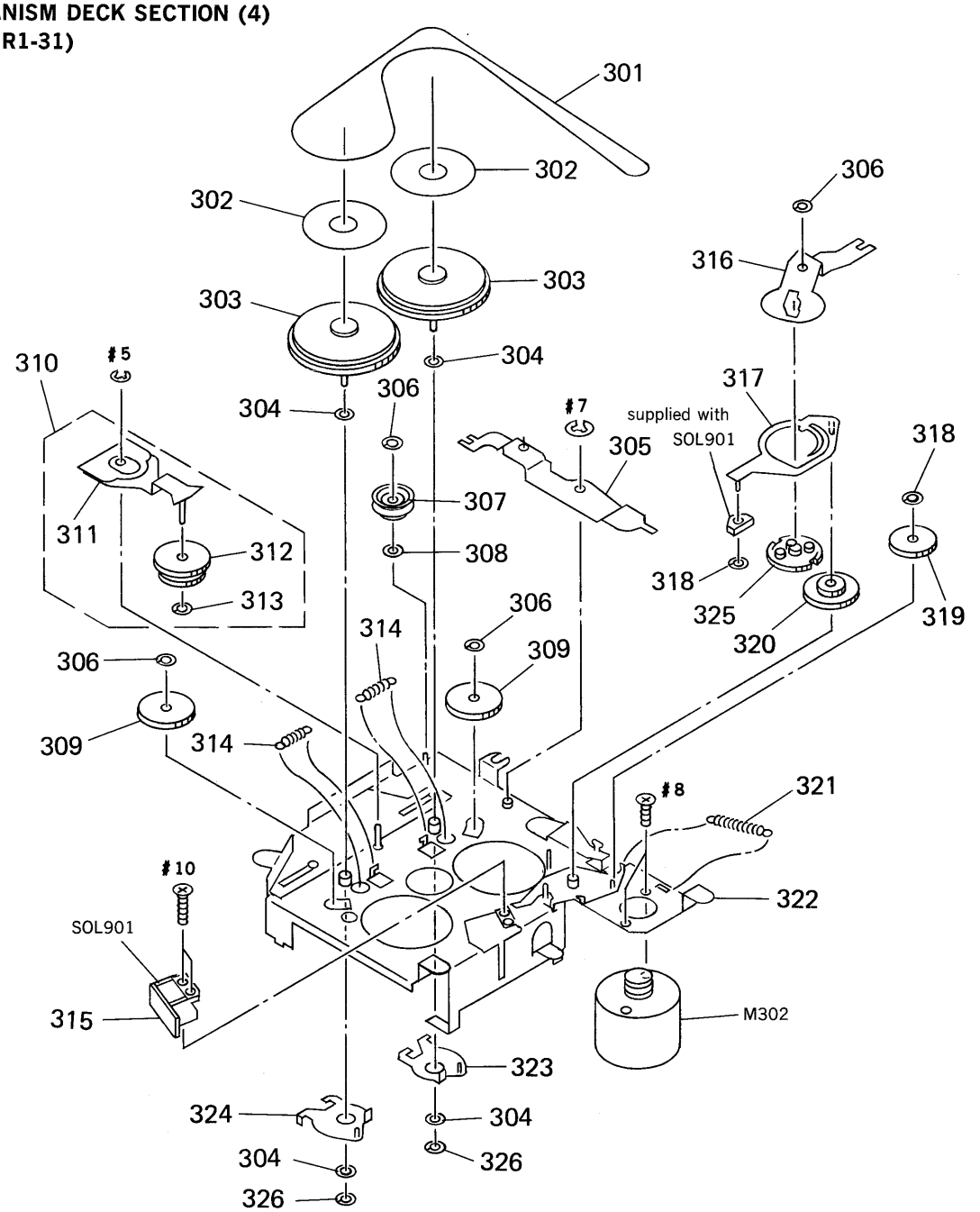
Ref. No.	Part No.	Description	Remark
* 201	A-3239-954-A	GEAR ASSY, DRIVING ARM	
202	3-662-058-00	WASHER, SLIT	
203	3-344-137-01	SPRING, COMPRESSION	
204	3-344-165-02	GEAR (B), FRICTION	
205	X-3344-109-4	ARM ASSY, DRIVING	
206	1-635-519-12	FLEXIBLE BOARD	
207	3-344-281-01	GEAR (A), DRIVING	
* 208	X-3344-142-2	BRACKET (F) ASSY, MOTOR	
209	3-344-156-01	GEAR (B), DRIVING	
210	3-344-157-01	SHAFT, GEAR (B), DRIVING	
211	3-703-502-21	SCREW	
212	X-3344-119-1	GEAR ASSY (L), LDG	
213	3-344-222-01	WASHER	
* 214	3-375-458-01	ARM (M), REVERSE	
* 215	X-3362-260-3	CHASSIS (F) ASSY, MCU	
216	X-3344-117-1	ARM ASSY (L), MODE	
* 217	A-3294-024-A	EQ BOARD, COMPLETE	
* 218	3-936-254-01	INSULATOR	
219	3-344-108-01	GEAR (FRICTION A)	
M301	X-3362-826-1	MOTOR ASSY (LOADING)	
S901	1-572-397-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	

7-6. MECHANISM DECK SECTION (3) (MG-55R1-31)



Ref. No.	Part No.	Description	Remark
251	3-905-661-01	WASHER	
252	3-365-725-01	CAP (F), REEL	
253	3-344-143-01	SPRING (BT), COMPRESSION	
254	X-3362-214-1	TABLE (F) ASSY, REEL	
255	3-701-437-01	POLY-SLIDER (A)	
* 256	1-660-525-11	REEL BOARD	
* 257	X-3366-705-1	BRACKET ASSY (F6), TABLE, REEL	
258	3-344-130-04	RETAINER, HEAD	
259	3-364-122-01	SCREW (M1.4X5.5), ADJ	
260	3-372-170-01	ARM, DAH	
261	3-344-128-06	SEAM, DAH	
262	3-344-110-01	SCREW (HB), STEP	
263	X-3344-115-1	ARM (R) ASSY, PINCH	
264	X-3344-116-1	ARM (F) ASSY, PINCH	
265	3-363-909-01	SPRING (R), PINCH PRESS	
* 266	X-3366-703-2	BASE ASSY (F6), HEAD	
* 267	3-382-483-01	LEVER (RVS JOINT)	
268	3-344-116-01	ROLLER (A), H/B	
269	3-344-222-01	WASHER	
270	3-344-217-01	SPRING (CAM LOCK LEVER), TENSION	
* 271	3-344-220-01	COVER, MD	
HP901	1-500-043-21	HEAD, MAGNETIC (PLAYBACK)	

7-7. MECHANISM DECK SECTION (4) (MG-55R1-31)



Ref. No.	Part No.	Description	Remark
301	3-387-987-01	BELT	
302	3-907-512-01	SHEET (FLYWHEEL)	
303	3-389-621-02	FLYWHEEL (Z)	
304	3-701-437-01	POLY-SLIDER (A)	
* 305	X-3344-139-3	ARM ASSY, POWER	
306	3-344-222-01	WASHER	
307	3-371-971-01	PULLEY (P), MIDWAY	
308	3-701-436-01	WASHER, 1.6	
309	3-376-927-01	GEAR (PLAY)	
310	A-3223-947-A	GEAR ASSY, FR	
* 311	X-3366-711-1	ARM ASSY (F6), FR	
312	X-3344-102-1	GEAR ASSY, FR	
313	3-905-588-01	WASHER	
314	3-344-218-02	SPRING (PLAY ARM), TENSION	

Ref. No.	Part No.	Description	Remark
* 315	1-660-526-11	PLUNGER BOARD	
* 316	X-3344-114-1	LEVER ASSY, RVS	
317	X-3344-107-1	LEVER ASSY (F6), CAM LOCK	
318	3-344-223-01	WASHER	
319	3-344-147-01	GEAR (RVS-A)	
320	3-344-146-01	GEAR (RVS-B)	
321	3-344-215-01	SPRING, TENSION	
* 322	X-3366-043-1	CHASSIS (L) ASSY, MECHANICAL	
* 323	X-3366-402-1	ARM ASSY (PLAY F)	
* 324	X-3366-403-1	ARM ASSY (PLAY R)	
325	3-389-171-01	GEAR (RVS CAM)	
326	3-364-151-01	WASHER	
M302	X-3344-136-4	MOTOR ASSY, CAPSTAN	
SOL901	1-454-461-31	SOLENOID, PLUNGER	

EQ **INDICATOR**

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-3294-024-A	EQ BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C301	1-109-813-11	MICA CHIP	100PF	5%	100V
C302	1-109-813-11	MICA CHIP	100PF	5%	100V
C303	1-136-153-00	FILM	0.01uF	5%	50V
C304	1-115-662-61	ELECT	0.47uF	20%	50V
C305	1-104-563-11	FILM CHIP	0.1uF	5%	16V
C306	1-104-561-11	FILM CHIP	0.068uF	5%	16V
C321	1-115-651-61	ELECT	100uF	20%	16V
C322	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C323	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C324	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C325	1-115-650-61	ELECT	47uF	20%	16V
C326	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C327	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C328	1-162-806-11	CERAMIC	0.1uF	10%	50V
C401	1-109-813-11	MICA CHIP	100PF	5%	100V
C402	1-109-813-11	MICA CHIP	100PF	5%	100V
C403	1-136-153-00	FILM	0.01uF	5%	50V
C404	1-115-662-61	ELECT	0.47uF	20%	50V
C405	1-104-563-11	FILM CHIP	0.1uF	5%	16V
C406	1-104-561-11	FILM CHIP	0.068uF	5%	16V
C407	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN301	1-565-770-11	CONNECTOR, FPC (1.0MM) (ZIF) 6P			
CN302	1-569-806-21	CONNECTOR, FPC5P			
* CN303	1-691-741-21	PIN, CONNECTOR (PC BOARD) 2P			
* CN304	1-750-217-21	CONNECTOR (WAFER) 18P			
		< DIODE >			
D301	8-719-027-50	DIODE MA142WK			
D302	8-719-027-50	DIODE MA142WK			
D303	8-719-027-50	DIODE MA142WK			
		< IC >			
IC301	8-752-075-59	IC CXA2511Q-T4			

Ref.No.	Part No.	Description			Remark
		< RESISTOR >			
R301	1-208-571-11	METAL GLAZE	68K	2%	1/8W
R302	1-208-571-11	METAL GLAZE	68K	2%	1/8W
R303	1-208-587-11	METAL GLAZE	330K	2%	1/8W
R304	1-208-512-11	METAL GLAZE	12K	2%	1/8W
R305	1-208-810-11	METAL GLAZE	15K	2%	1/8W
R306	1-208-415-11	METAL GLAZE	120	2%	1/8W
R307	1-216-682-11	METAL CHIP	20K	0.5%	1/10W
R322	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R323	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R324	1-216-113-00	METAL CHIP	470K	5%	1/10W
R325	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R326	1-216-073-00	METAL CHIP	10K	5%	1/10W
R327	1-216-025-00	METAL GLAZE	100	5%	1/10W
R401	1-208-571-11	METAL GLAZE	68K	2%	1/8W
R402	1-208-571-11	METAL GLAZE	68K	2%	1/8W
R403	1-208-587-11	METAL GLAZE	330K	2%	1/8W
R404	1-208-512-11	METAL GLAZE	12K	2%	1/8W
R405	1-208-810-11	METAL GLAZE	15K	2%	1/8W
R406	1-208-415-11	METAL GLAZE	120	2%	1/8W
		< VARIABLE RESISTOR >			
RV301	1-241-785-11	RES, ADJ, CERMET 10K			
RV401	1-241-785-11	RES, ADJ, CERMET 10K			
		< SWITCH >			
S301	1-570-953-11	SWITCH, PUSH (1 KEY) (TAPE DET)			
S302	1-570-953-11	SWITCH, PUSH (1 KEY) (FWD/REV)			
**********					
*	1-662-789-11	INDICATOR BOARD			
		**********			
		< CONNECTOR >			
CN850	1-770-621-21	PIN, CONNECTOR 4P			
		< DIODE >			
D850	8-719-033-13	LED CL-170Y-CD-T			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q850	8-729-015-76	TRANSISTOR UN5211			
		< RESISTOR >			
R850	1-216-049-11	METAL GLAZE	1K	5% 1/10W	
**********					
*	A-3309-554-A	INVERTER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C810	1-126-963-11	ELECT	4.7uF	20% 50V	
C811	1-104-760-11	CERAMIC CHIP	0.047uF	10% 50V	
C812	1-104-760-11	CERAMIC CHIP	0.047uF	10% 50V	
C813	1-126-933-11	ELECT	100uF	20% 16V	
C814	1-104-760-11	CERAMIC CHIP	0.047uF	10% 50V	
C815	1-126-941-11	ELECT	470uF	20% 25V	
C816	1-104-760-11	CERAMIC CHIP	0.047uF	10% 50V	
		< CONNECTOR >			
* CN810	1-506-989-11	PIN, CONNECTOR (PC BOARD) 7P			
		< DIODE >			
D810	8-719-977-32	DIODE DTZ11B			
D811	8-719-976-96	DIODE DTZ4.7C			
		< COIL >			
L811	1-414-712-21	INDUCTOR	1mH		
		< TRANSISTOR >			
Q810	8-729-808-02	TRANSISTOR 2SD1622-T-TD			
Q811	8-729-808-02	TRANSISTOR 2SD1622-T-TD			
Q812	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R810	1-216-017-00	METAL GLAZE	47	5% 1/10W	
R811	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R812	1-216-049-11	METAL GLAZE	1K	5% 1/10W	
R813	1-216-001-00	METAL CHIP	10	5% 1/10W	
		< TRANSFORMER >			
T810	1-429-657-11	TRANSFORMER, EL INVERTER			
**********					

Ref. No.	Part No.	Description			Remark
		KEY BOARD			
		*********			
	1-778-197-11	CONNECTOR, INTER			
	3-327-119-01	SPACER (A)			
*	3-934-395-01	ILLUMINATOR (LCD)			
	3-934-412-01	PLATE (LCD), GROUND			
		< CAPACITOR >			
C770	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C771	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C772	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C773	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
		< CONNECTOR >			
CN701	1-778-183-11	PLUG, CONNECTOR 18P			
		< DIODE >			
D750	8-719-422-49	DIODE MA8056-L			
D770	8-719-422-43	DIODE MA8051-H			
D772	8-719-422-43	DIODE MA8051-H			
D774	8-719-404-49	DIODE MA111			
		< ELECTRO LUMINESCENT LIGHT >			
EL701	1-517-557-11	LIGHT, ELECTRO LUMINESCENT			
		< IC >			
IC701	8-759-331-68	IC uPD16432AGC-011-9EU			
IC702	8-759-397-71	IC uPD16432BGC-012-9EU			
IC703	8-749-012-17	IC RS-140-T			
		< LIQUID CRYSTAL DISPLAY >			
LCD701	1-801-281-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< DIODE >			
LED751	8-719-052-72	LED CL-220HR-C			
LED752	8-719-052-72	LED CL-220HR-C			
LED753	8-719-052-72	LED CL-220HR-C			
LED755	8-719-052-72	LED CL-220HR-C			
LED756	8-719-052-72	LED CL-220HR-C			
LED757	8-719-052-72	LED CL-220HR-C			
LED758	8-719-052-72	LED CL-220HR-C			
LED761	8-719-987-45	LED CL-155Y/PG-CD			
LED762	8-719-987-45	LED CL-155Y/PG-CD			
LED763	8-719-987-45	LED CL-155Y/PG-CD			
LED764	8-719-987-45	LED CL-155Y/PG-CD			
LED765	8-719-987-45	LED CL-155Y/PG-CD			
LED766	8-719-987-45	LED CL-155Y/PG-CD			
LED767	8-719-987-45	LED CL-155Y/PG-CD			

KEY

Ref. No.	Part No.	Description	Remark
LED768	8-719-987-45	LED CL-155Y/PG-CD	
		< SWITCH >	
LSW700	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(OPEN ⏏)
LSW702	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(DSPL)
LSW703	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(LIST)
LSW705	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(10)
LSW706	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(9)
LSW707	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(8)
LSW708	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(7)
LSW709	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(6)
LSW710	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(5)
LSW711	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(OFF)
LSW712	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(SOURCE)
LSW713	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(SOUND)
LSW714	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(⏭ ▶▶ (SEEK/AMS))
LSW715	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(⏮ ◀◀ (SEEK/AMS))
LSW716	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(SHIFT)
LSW717	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(1)
LSW718	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(2)
LSW719	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(3)
LSW720	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(4)
		< TRANSISTOR >	
Q750	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q774	8-729-904-66	TRANSISTOR DTD113EK	
Q775	8-729-904-66	TRANSISTOR DTD113EK	
		< RESISTOR >	
R701	1-216-045-00	METAL CHIP 680 5%	1/10W
R702	1-216-045-00	METAL CHIP 680 5%	1/10W
R703	1-216-045-00	METAL CHIP 680 5%	1/10W
R704	1-216-049-11	METAL GLAZE 1K 5%	1/10W
R705	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R706	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
R707	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R708	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R709	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R710	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R712	1-216-045-00	METAL CHIP 680 5%	1/10W
R713	1-216-045-00	METAL CHIP 680 5%	1/10W
R714	1-216-819-11	METAL CHIP 680 5%	1/16W
R715	1-216-049-11	METAL GLAZE 1K 5%	1/10W
R716	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R717	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
R718	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R719	1-216-827-11	METAL CHIP 3.3K 5%	1/16W

Ref. No.	Part No.	Description	Remark
R720	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R721	1-216-037-00	METAL CHIP 330 5%	1/10W
R722	1-216-041-00	METAL CHIP 470 5%	1/10W
R723	1-216-033-00	METAL CHIP 220 5%	1/10W
R724	1-216-027-00	METAL CHIP 120 5%	1/10W
R725	1-216-037-00	METAL CHIP 330 5%	1/10W
R726	1-216-021-00	METAL CHIP 68 5%	1/10W
R727	1-216-021-00	METAL CHIP 68 5%	1/10W
R728	1-216-033-00	METAL CHIP 220 5%	1/10W
R729	1-216-033-00	METAL CHIP 220 5%	1/10W
R730	1-216-033-00	METAL CHIP 220 5%	1/10W
R731	1-216-029-00	METAL CHIP 150 5%	1/10W
R732	1-216-029-00	METAL CHIP 150 5%	1/10W
R733	1-216-029-00	METAL CHIP 150 5%	1/10W
R734	1-216-029-00	METAL CHIP 150 5%	1/10W
R735	1-216-033-00	METAL CHIP 220 5%	1/10W
R736	1-216-027-00	METAL CHIP 120 5%	1/10W
R737	1-216-033-00	METAL CHIP 220 5%	1/10W
R750	1-216-041-00	METAL CHIP 470 5%	1/10W
R751	1-216-045-00	METAL CHIP 680 5%	1/10W
R752	1-216-045-00	METAL CHIP 680 5%	1/10W
R753	1-216-045-00	METAL CHIP 680 5%	1/10W
R755	1-216-045-00	METAL CHIP 680 5%	1/10W
R756	1-216-045-00	METAL CHIP 680 5%	1/10W
R757	1-216-045-00	METAL CHIP 680 5%	1/10W
R758	1-216-045-00	METAL CHIP 680 5%	1/10W
R770	1-216-041-00	METAL CHIP 470 5%	1/10W
R772	1-216-041-00	METAL CHIP 470 5%	1/10W
R773	1-216-025-00	METAL GLAZE 100 5%	1/10W
R774	1-216-049-11	METAL GLAZE 1K 5%	1/10W
R779	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R780	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R781	1-216-841-11	METAL CHIP 47K 5%	1/16W
R786	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R787	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R788	1-216-841-11	METAL CHIP 47K 5%	1/16W
R789	1-216-845-11	METAL CHIP 100K 5%	1/16W
R790	1-216-845-11	METAL CHIP 100K 5%	1/16W
R791	1-216-841-11	METAL CHIP 47K 5%	1/16W
R792	1-216-841-11	METAL CHIP 47K 5%	1/16W
R797	1-216-025-00	METAL GLAZE 100 5%	1/10W
		< NETWORK RESISTOR >	
RB701	1-239-426-11	NETWORK RESISTOR (CHIP) 2.2K	
RB702	1-239-426-11	NETWORK RESISTOR (CHIP) 2.2K	
RB703	1-239-426-11	NETWORK RESISTOR (CHIP) 2.2K	
RB704	1-239-426-11	NETWORK RESISTOR (CHIP) 2.2K	

Ref. No.	Part No.	Description			Remark
		< ROTARY ENCODER >			
RE701	1-473-644-11	ENCODER, ROTARY (ENCODER)			
**********					
*	A-3309-555-A	MAIN BOARD, COMPLETE			
		**********			
*	3-920-606-01	BRACKET (IC)			
*	3-939-183-01	PLATE (FLEXIBLE), SHIELD			
		< BUZZER >			
BZ501	1-504-920-11	BUZZER			
		< CAPACITOR >			
C11	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C12	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C14	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C18	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C19	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C20	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C21	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C22	1-126-933-11	ELECT	100uF	20%	16V
C23	1-126-933-11	ELECT	100uF	20%	16V
C24	1-126-277-11	ELECT	100uF	20%	10V
C31	1-104-554-11	FILM CHIP	0.018uF	5%	16V
C32	1-104-951-11	ELECT	10uF	20%	16V
C33	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C34	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C35	1-126-161-11	ELECT	2.2uF	20%	50V
C36	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
C41	1-104-554-11	FILM CHIP	0.018uF	5%	16V
C42	1-104-951-11	ELECT	10uF	20%	16V
C43	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C44	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C45	1-126-161-11	ELECT	2.2uF	20%	50V
C46	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
C59	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C60	1-126-162-11	ELECT	3.3uF	20%	50V
C61	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C62	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C63	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C64	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C65	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C66	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C67	1-104-951-11	ELECT	10uF	20%	16V
C68	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C69	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C70	1-104-942-11	ELECT	1uF	20%	50V
C71	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C72	1-126-277-11	ELECT	100uF	20%	10V
C73	1-104-952-11	ELECT	22uF	20%	16V
C74	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C75	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C76	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C77	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C83	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
C84	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C85	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C91	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C92	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C93	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C94	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C96	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C97	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C98	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C99	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C101	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C102	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C103	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C201	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C202	1-104-951-11	ELECT	10uF	20%	16V
C203	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C204	1-126-012-11	ELECT	470uF	20%	16V
C206	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C211	1-126-161-11	ELECT	2.2uF	20%	50V
C221	1-126-161-11	ELECT	2.2uF	20%	50V
C231	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C233	1-126-277-11	ELECT	100uF	20%	10V
C305	1-136-165-00	FILM	0.1uF	5%	50V
C306	1-137-366-11	FILM	0.0022uF	5%	50V
C307	1-104-946-11	ELECT	10uF	20%	35V
C308	1-137-366-11	FILM	0.0022uF	5%	50V
C309	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C310	1-104-946-11	ELECT	10uF	20%	35V
C331	1-104-946-11	ELECT	10uF	20%	35V
C333	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C341	1-104-946-11	ELECT	10uF	20%	35V
C343	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C351	1-126-277-11	ELECT	100uF	20%	10V
C352	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C353	1-126-277-11	ELECT	100uF	20%	10V
C354	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C355	1-126-277-11	ELECT	100uF	20%	10V

MAIN

Ref. No.	Part No.	Description			Remark
C356	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C357	1-126-277-11	ELECT	100uF	20%	10V
C358	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C365	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C371	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C372	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C373	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C375	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C381	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C382	1-126-277-11	ELECT	100uF	20%	10V
C383	1-104-952-11	ELECT	22uF	20%	16V
C405	1-136-165-00	FILM	0.1uF	5%	50V
C406	1-137-366-11	FILM	0.0022uF	5%	50V
C407	1-104-946-11	ELECT	10uF	20%	35V
C408	1-137-366-11	FILM	0.0022uF	5%	50V
C409	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C410	1-104-946-11	ELECT	10uF	20%	35V
C431	1-104-946-11	ELECT	10uF	20%	35V
C433	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C441	1-104-946-11	ELECT	10uF	20%	35V
C443	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C471	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C472	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C473	1-104-851-11	TANTAL. CHIP	10uF	20%	10V
C475	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C502	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C503	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C504	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C506	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C511	1-104-951-11	ELECT	10uF	20%	16V
C516	1-104-951-11	ELECT	10uF	20%	16V
C517	1-104-951-11	ELECT	10uF	20%	16V
C551	1-125-701-11	CAPACITOR	0.047F		5.5V
C552	1-126-924-11	ELECT	330uF	20%	10V
C553	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C555	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C561	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C562	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C572	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C581	1-104-945-11	ELECT	4.7uF	20%	35V
C591	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C601	1-104-952-11	ELECT	22uF	20%	16V
C602	1-104-952-11	ELECT	22uF	20%	16V
C603	1-104-952-11	ELECT	22uF	20%	16V
C604	1-104-952-11	ELECT	22uF	20%	16V
C605	1-104-952-11	ELECT	22uF	20%	16V
C606	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C611	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C612	1-126-277-11	ELECT	100uF	20%	10V
C651	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C660	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C661	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C662	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C701	1-136-165-00	FILM	0.1uF	5%	50V
C702	1-136-165-00	FILM	0.1uF	5%	50V
C703	1-136-165-00	FILM	0.1uF	5%	50V
C704	1-136-165-00	FILM	0.1uF	5%	50V
C705	1-136-165-00	FILM	0.1uF	5%	50V
C706	1-136-165-00	FILM	0.1uF	5%	50V
C707	1-136-165-00	FILM	0.1uF	5%	50V
C708	1-136-165-00	FILM	0.1uF	5%	50V
C710	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C711	1-104-951-11	ELECT	10uF	20%	16V
C712	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C713	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C731	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C732	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C733	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C734	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C735	1-104-952-11	ELECT	22uF	20%	16V
C736	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C737	1-104-952-11	ELECT	22uF	20%	16V
C741	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C742	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C743	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C744	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C746	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C747	1-104-952-11	ELECT	22uF	20%	16V
C751	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C752	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C753	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C754	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C761	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C762	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C763	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C764	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C901	1-111-233-11	ELECT	5600uF	20%	16V
C902	1-136-961-11	FILM	0.047uF	10%	160V
C904	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C910	1-126-013-11	ELECT	1000uF	20%	16V
C921	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C922	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C923	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C924	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C931	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C932	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C933	1-126-161-11	ELECT	2.2uF	20%	50V

Ref. No.	Part No.	Description			Remark
C941	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C942	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C944	1-126-161-11	ELECT	2.2uF	20%	50V
C951	1-104-942-11	ELECT	1uF	20%	50V
C952	1-104-953-11	ELECT	47uF	20%	16V
C999	1-104-951-11	ELECT	10uF	20%	16V
		< CONNECTOR >			
* CN10	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
* CN201	1-750-218-21	CONNECTOR (HOUSING) 18P			
CN202	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD) 8P			
CN571	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
CN650	1-778-047-21	CONNECTOR, FPC 21P			
* CN651	1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P			
* CN652	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P			
CN653	1-770-623-21	PIN, CONNECTOR 6P			
CN654	1-770-621-21	PIN, CONNECTOR 4P			
CN655	1-770-621-21	PIN, CONNECTOR 4P			
CN900	1-774-701-11	PIN, CONNECTOR 16P			
* CN901	1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P			
* CN902	1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P			
		< DISCHARGE GAP >			
CP11	1-519-504-11	GAP, DISCHARGE			
CP12	1-519-504-11	GAP, DISCHARGE			
		< DIODE >			
D11	8-719-421-40	DIODE	MA77		
D12	8-719-421-40	DIODE	MA77		
D13	8-719-421-40	DIODE	MA77		
D14	8-719-421-40	DIODE	MA77		
D15	8-719-040-04	DIODE	MA721WK-(TX)		
D71	8-719-977-02	DIODE	DTZ-TT11-5.6A		
D72	8-719-977-23	DIODE	DTZ9.1A		
D81	8-719-976-87	DIODE	DTZ3.9A		
D101	8-719-404-49	DIODE	MA111		
D202	8-719-977-25	DIODE	DTZ9.1C		
D203	8-719-404-49	DIODE	MA111		
D204	8-719-801-78	DIODE	1SS184		
D231	8-719-977-25	DIODE	DTZ9.1C		
D501	8-719-027-48	DIODE	MA142WA		
D551	8-719-040-04	DIODE	MA721WK-(TX)		
D552	8-719-404-49	DIODE	MA111		
D553	8-719-027-48	DIODE	MA142WA		
D554	8-719-105-99	DIODE	RD6.2M-B1		
D561	8-719-404-49	DIODE	MA111		
D562	8-719-034-46	DIODE	MA4062-M(QZ)		
D563	8-719-034-46	DIODE	MA4062-M(QZ)		

Ref. No.	Part No.	Description		Remark
D571	8-719-977-12	DIODE	DTZ6.8B	
D572	8-719-034-46	DIODE	MA4062-M(QZ)	
D573	8-719-034-46	DIODE	MA4062-M(QZ)	
D574	8-719-034-46	DIODE	MA4062-M(QZ)	
D575	8-719-978-69	DIODE	DTZ-TT11-16B	
D576	8-719-404-49	DIODE	MA111	
D577	8-719-404-49	DIODE	MA111	
D581	8-719-027-50	DIODE	MA142WK	
D582	8-719-105-99	DIODE	RD6.2M-B1	
D591	8-719-801-78	DIODE	1SS184	
D592	8-719-105-99	DIODE	RD6.2M-B1	
D610	8-719-977-25	DIODE	DTZ9.1C	
D651	8-719-977-32	DIODE	DTZ11B	
D660	8-719-977-32	DIODE	DTZ11B	
D661	8-719-105-99	DIODE	RD6.2M-B1	
D662	8-719-105-99	DIODE	RD6.2M-B1	
D663	8-719-105-99	DIODE	RD6.2M-B1	
D664	8-719-105-99	DIODE	RD6.2M-B1	
D665	8-719-105-99	DIODE	RD6.2M-B1	
D666	8-719-105-99	DIODE	RD6.2M-B1	
D667	8-719-105-99	DIODE	RD6.2M-B1	
D668	8-719-105-99	DIODE	RD6.2M-B1	
D669	8-719-105-99	DIODE	RD6.2M-B1	
D670	8-719-105-99	DIODE	RD6.2M-B1	
D671	8-719-105-99	DIODE	RD6.2M-B1	
D672	8-719-105-99	DIODE	RD6.2M-B1	
D901	8-719-049-38	DIODE	1N5404TU	
D903	8-719-404-49	DIODE	MA111	
D923	8-719-105-99	DIODE	RD6.2M-B1	
D924	8-719-105-99	DIODE	RD6.2M-B1	
D951	8-719-976-87	DIODE	DTZ3.9A	
D953	8-719-404-49	DIODE	MA111	
		< FUSE >		
F901	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A		
		< IC >		
IC10	8-759-346-65	IC	TA2083FN-EL	
IC31	8-759-711-82	IC	NJM4580E	
IC32	8-759-711-82	IC	NJM4580E	
IC60	8-759-367-11	IC	HA12181FP-EL	
IC90	8-759-823-81	IC	LC7216M	
IC101	8-759-428-05	IC	MN1883220S4B3	
IC201	8-759-823-87	IC	LB1638M	
IC301	8-752-075-48	IC	CXA1946AQ-T6	
IC302	8-759-700-94	IC	NJM5532M	
IC305	8-759-711-82	IC	NJM4580E	
IC381	8-752-067-31	IC	CXA1846M-T6	

MAIN

Ref. No.	Part No.	Description	Remark
IC382	8-759-711-82	IC NJM4580E	
IC405	8-759-711-82	IC NJM4580E	
IC501	8-759-421-78	IC uPD78078GF-030-3BA	
IC551	8-759-196-18	IC M62008FP-T1	
IC571	8-759-096-16	IC MM1175XF-T1	
IC601	8-759-347-49	IC BA3918-V2	
IC701	8-759-369-41	IC HA13155	
IC710	8-759-262-37	IC TA2050F(EL)	
IC720	8-759-262-37	IC TA2050F(EL)	
		< JACK >	
J561	1-566-822-41	JACK (REMOTE IN)	
		< COIL >	
L10	1-410-525-11	INDUCTOR 220uH	
L11	1-410-999-11	INDUCTOR CHIP 3.3uH	
L91	1-414-233-21	INDUCTOR, FERRITE BEAD	
L101	1-414-233-21	INDUCTOR, FERRITE BEAD	
L102	1-414-233-21	INDUCTOR, FERRITE BEAD	
L501	1-414-233-21	INDUCTOR, FERRITE BEAD	
L901	1-411-669-12	COIL, CHOKE	
L910	1-411-404-11	COIL, CHOKE 680uH	
		< IC LINK >	
PS920	1-533-674-21	LINK, CHIP IC (0.5A)	
		< TRANSISTOR >	
Q11	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q31	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q41	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q71	8-729-808-02	TRANSISTOR 2SD1622-T-TD	
Q72	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q73	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q74	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q81	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q82	8-729-424-08	TRANSISTOR UN2111	
Q101	8-729-015-76	TRANSISTOR UN5211	
Q201	8-729-807-12	TRANSISTOR 2SD1802-S	
Q202	8-729-015-74	TRANSISTOR UN5111	
Q203	8-729-106-60	TRANSISTOR 2SB1115A	
Q205	8-729-429-92	TRANSISTOR XN1211	
Q231	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q232	8-729-106-60	TRANSISTOR 2SB1115A	
Q233	8-729-020-67	TRANSISTOR XN1A312-TX	
Q235	8-729-900-51	TRANSISTOR DTA114TK	
Q331	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q341	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q371	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	

Ref. No.	Part No.	Description	Remark
Q431	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q441	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q471	8-729-021-95	TRANSISTOR RN1441-A (TE85L)	
Q501	8-729-421-22	TRANSISTOR UN2211	
Q551	8-729-024-31	TRANSISTOR XN1111-TX	
Q571	8-729-015-74	TRANSISTOR UN5111	
Q572	8-729-015-76	TRANSISTOR UN5211	
Q573	8-729-015-74	TRANSISTOR UN5111	
Q574	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q581	8-729-231-74	TRANSISTOR 2SC4116-GL	
Q591	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q610	8-729-020-67	TRANSISTOR XN1A312-TX	
Q611	8-729-807-12	TRANSISTOR 2SD1802-S	
Q650	8-729-429-92	TRANSISTOR XN1211	
Q651	8-729-015-74	TRANSISTOR UN5111	
Q652	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q653	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q655	8-729-106-60	TRANSISTOR 2SB1115A	
Q656	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q657	8-729-216-22	TRANSISTOR 2SA1162-G	
Q921	8-729-015-76	TRANSISTOR UN5211	
Q922	8-729-025-88	TRANSISTOR 2SB1386-T100-R	
Q951	8-729-424-08	TRANSISTOR UN2111	
Q952	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q953	8-729-021-94	TRANSISTOR 2SK1657-T1B	
		< RESISTOR >	
R11	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R12	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R13	1-216-813-11	METAL CHIP 220 5% 1/16W	
R14	1-216-843-11	METAL CHIP 68K 5% 1/16W	
R15	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R16	1-216-836-11	METAL CHIP 18K 5% 1/16W	
R17	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R18	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R20	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
R31	1-208-534-61	METAL GLAZE 100K 2% 1/10W	
R32	1-216-635-11	METAL CHIP 220 0.5% 1/10W	
R33	1-208-518-61	METAL GLAZE 22K 2% 1/10W	
R34	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R36	1-208-453-61	METAL GLAZE 4.7K 2% 1/10W	
R37	1-208-453-61	METAL GLAZE 4.7K 2% 1/10W	
R41	1-208-534-61	METAL GLAZE 100K 2% 1/10W	
R42	1-216-635-11	METAL CHIP 220 0.5% 1/10W	
R43	1-208-518-61	METAL GLAZE 22K 2% 1/10W	
R44	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R46	1-208-453-61	METAL GLAZE 4.7K 2% 1/10W	
R47	1-208-453-61	METAL GLAZE 4.7K 2% 1/10W	
R50	1-216-073-00	METAL CHIP 10K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R60	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R61	1-216-834-11	METAL CHIP	12K	5%	1/16W
R62	1-216-107-00	METAL CHIP	270K	5%	1/10W
R63	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R64	1-216-845-11	METAL CHIP	100K	5%	1/16W
R71	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R72	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R73	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R74	1-216-073-00	METAL CHIP	10K	5%	1/10W
R75	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R76	1-216-845-11	METAL CHIP	100K	5%	1/16W
R77	1-216-073-00	METAL CHIP	10K	5%	1/10W
R83	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R84	1-208-522-61	METAL GLAZE	33K	2%	1/10W
R88	1-216-073-00	METAL CHIP	10K	5%	1/10W
R89	1-216-073-00	METAL CHIP	10K	5%	1/10W
R91	1-216-073-00	METAL CHIP	10K	5%	1/10W
R92	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R93	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R101	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R102	1-216-845-11	METAL CHIP	100K	5%	1/16W
R106	1-216-845-11	METAL CHIP	100K	5%	1/16W
R108	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R201	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R202	1-216-150-00	METAL GLAZE	10	5%	1/8W
R203	1-216-150-00	METAL GLAZE	10	5%	1/8W
R204	1-216-150-00	METAL GLAZE	10	5%	1/8W
R205	1-216-150-00	METAL GLAZE	10	5%	1/8W
R206	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R207	1-216-073-00	METAL CHIP	10K	5%	1/10W
R208	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R230	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R301	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R304	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R330	1-208-437-61	METAL GLAZE	1K	2%	1/10W
R331	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R332	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R333	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R335	1-208-526-61	METAL GLAZE	47K	2%	1/10W
R340	1-208-437-61	METAL GLAZE	1K	2%	1/10W
R341	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R342	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R343	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R345	1-208-526-61	METAL GLAZE	47K	2%	1/10W
R351	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R352	1-216-214-00	METAL GLAZE	4.7K	2%	1/8W
R372	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R373	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R374	1-216-635-11	METAL CHIP	220	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R375	1-208-526-61	METAL GLAZE	47K	2%	1/10W
R401	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R404	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R430	1-208-437-61	METAL GLAZE	1K	2%	1/10W
R431	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R432	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R433	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R435	1-208-526-61	METAL GLAZE	47K	2%	1/10W
R440	1-208-437-61	METAL GLAZE	1K	2%	1/10W
R441	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R442	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R443	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R445	1-208-526-61	METAL GLAZE	47K	2%	1/10W
R472	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R473	1-208-453-61	METAL GLAZE	4.7K	2%	1/10W
R474	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R475	1-208-526-61	METAL GLAZE	47K	2%	1/10W
R505	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R506	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R507	1-216-845-11	METAL CHIP	100K	5%	1/16W
R508	1-219-358-11	METAL GLAZE	680K	2%	1/16W
R510	1-216-821-11	METAL CHIP	1K	5%	1/16W
R512	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R513	1-216-837-11	METAL CHIP	22K	5%	1/16W
R526	1-216-837-11	METAL CHIP	22K	5%	1/16W
R527	1-216-837-11	METAL CHIP	22K	5%	1/16W
R530	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R531	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R532	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R552	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R553	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R555	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R556	1-216-845-11	METAL CHIP	100K	5%	1/16W
R557	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R561	1-216-025-00	METAL GLAZE	100	5%	1/10W
R562	1-216-025-00	METAL GLAZE	100	5%	1/10W
R563	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R564	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R571	1-216-025-00	METAL GLAZE	100	5%	1/10W
R572	1-216-025-00	METAL GLAZE	100	5%	1/10W
R573	1-216-073-00	METAL CHIP	10K	5%	1/10W
R574	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R576	1-216-845-11	METAL CHIP	100K	5%	1/16W
R577	1-216-841-11	METAL CHIP	47K	5%	1/16W
R578	1-216-017-00	METAL CHIP	47	5%	1/10W
R581	1-208-494-61	METAL GLAZE	2.2K	2%	1/8W
R582	1-216-073-00	METAL CHIP	10K	5%	1/10W
R584	1-208-518-61	METAL GLAZE	22K	2%	1/10W
R585	1-208-518-61	METAL GLAZE	22K	2%	1/10W

MAIN MOTOR DRIVE

Ref. No.	Part No.	Description			Remark
R591	1-208-494-61	METAL GLAZE	2.2K	2%	1/8W
R592	1-216-073-00	METAL CHIP	10K	5%	1/10W
R594	1-208-518-61	METAL GLAZE	22K	2%	1/10W
R595	1-208-518-61	METAL GLAZE	22K	2%	1/10W
R596	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R597	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R611	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R651	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R654	1-216-073-00	METAL CHIP	10K	5%	1/10W
R655	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R657	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R658	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R659	1-216-073-00	METAL CHIP	10K	5%	1/10W
R660	1-216-025-00	METAL GLAZE	100	5%	1/10W
R661	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R662	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R663	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R664	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R665	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R666	1-216-025-00	METAL GLAZE	100	5%	1/10W
R667	1-216-025-00	METAL GLAZE	100	5%	1/10W
R668	1-216-025-00	METAL GLAZE	100	5%	1/10W
R669	1-216-025-00	METAL GLAZE	100	5%	1/10W
R670	1-216-025-00	METAL GLAZE	100	5%	1/10W
R671	1-216-025-00	METAL GLAZE	100	5%	1/10W
R672	1-216-025-00	METAL GLAZE	100	5%	1/10W
R673	1-218-740-11	METAL CHIP	100K	0.50%	1/16W
R674	1-218-740-11	METAL CHIP	100K	0.50%	1/16W
R701	1-208-373-11	METAL GLAZE	2.2	2%	1/8W
R702	1-208-373-11	METAL GLAZE	2.2	2%	1/8W
R703	1-208-373-11	METAL GLAZE	2.2	2%	1/8W
R704	1-208-373-11	METAL GLAZE	2.2	2%	1/8W
R705	1-208-373-11	METAL GLAZE	2.2	2%	1/8W
R706	1-208-373-11	METAL GLAZE	2.2	2%	1/8W
R707	1-208-373-11	METAL GLAZE	2.2	2%	1/8W
R708	1-208-373-11	METAL GLAZE	2.2	2%	1/8W
R731	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R732	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R733	1-208-800-11	METAL GLAZE	5.6K	2%	1/10W
R734	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R741	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R742	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R743	1-208-800-11	METAL GLAZE	5.6K	2%	1/10W
R744	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R751	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R752	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R753	1-208-800-11	METAL GLAZE	5.6K	2%	1/10W
R754	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R761	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R762	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R763	1-208-800-11	METAL GLAZE	5.6K	2%	1/10W
R764	1-208-449-61	METAL GLAZE	3.3K	2%	1/10W
R921	1-216-073-00	METAL CHIP	10K	5%	1/10W
R922	1-216-073-00	METAL CHIP	10K	5%	1/10W
R923	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R924	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R932	1-208-437-61	METAL GLAZE	1K	2%	1/10W
R942	1-208-437-61	METAL GLAZE	1K	2%	1/10W
R950	1-216-296-00	CONDUCTOR, CHIP		(3216)	
R951	1-216-017-00	METAL GLAZE	47	5%	1/10W
R952	1-216-081-00	METAL CHIP	22K	5%	1/10W
		< NETWORK RESISTOR >			
RB101	1-239-426-11	NETWORK RESISTOR (CHIP)	2.2K		
RB501	1-239-426-11	NETWORK RESISTOR (CHIP)	2.2K		
RB502	1-236-907-11	NETWORK RESISTOR (CHIP)	100K		
RB503	1-236-907-11	NETWORK RESISTOR (CHIP)	100K		
RB504	1-236-907-11	NETWORK RESISTOR (CHIP)	100K		
RB505	1-236-907-11	NETWORK RESISTOR (CHIP)	100K		
		< SWITCH >			
S10	1-571-478-11	SWITCH, SLIDE (FM DIVERSITY)			
S101	1-572-272-11	SWITCH, SLIDE (FREQUENCY SELECT)			
S300	1-762-284-11	SWITCH, SLIDE (LINE OUT/IN)			
S501	1-572-272-11	SWITCH, SLIDE (POWER SELECT)			
S551	1-692-431-21	SWITCH, TACTILE (RESET)			
		< TUNER >			
TU10	A-3282-020-A	TUNER UNIT (TUX-009 (E))			
		< VIBRATOR >			
X90	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)			
X101	1-579-952-21	VIBRATOR, CERAMIC (8MHz)			
X501	1-579-233-11	VIBRATOR, CERAMIC (5MHz)			
X502	1-760-928-21	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	1-662-791-11	MOTOR DRIVE BOARD			
		**********			
		< CAPACITOR >			
C870	1-124-234-00	ELECT	22uF	20%	16V
C871	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C873	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C879	1-104-945-11	ELECT	4.7uF	20%	35V
		< CONNECTOR >			
CN870	1-770-621-21	PIN, CONNECTOR 4P			

Ref. No.	Part No.	Description	Remark
* CN871	1-691-741-21	PIN, CONNECTOR (PC BOARD) 2P	
		< DIODE >	
D870	8-719-801-78	DIODE 1SS184	
D871	8-719-404-49	DIODE MA111	
D872	8-719-404-49	DIODE MA111	
D873	8-719-977-28	DIODE DTZ10B	
D874	8-719-977-12	DIODE DTZ6.8B	
		< IC >	
IC870	8-759-054-67	IC BA6285FP	
		< TRANSISTOR >	
Q870	8-729-020-67	TRANSISTOR XN1A312-TX	
Q871	8-729-808-02	TRANSISTOR 2SD1622-T-TD	
Q872	8-729-216-22	TRANSISTOR 2SA1162-G	
		< RESISTOR >	
R870	1-216-041-00	METAL CHIP 470 5% 1/10W	
R879	1-216-073-00	METAL CHIP 10K 5% 1/10W	
**********			
*	1-660-526-11	PLUNGER BOARD	
		**********	
		< PLUNGER >	
SOL901	1-454-461-31	SOLENOID, PLUNGER	
**********			
*	1-662-790-11	POSITION BOARD	
		**********	
		< CONNECTOR >	
CN830	1-770-623-21	PIN, CONNECTOR 6P	
		< RESISTOR >	
R830	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R831	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R832	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R833	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
		< SWITCH >	
SW830	1-572-288-11	SWITCH, PUSH	
SW831	1-572-288-11	SWITCH, PUSH	
SW832	1-572-688-11	SWITCH, PUSH (1 KEY)	
SW833	1-572-288-11	SWITCH, PUSH	
**********			

Ref. No.	Part No.	Description	Remark
*	1-660-525-11	REEL BOARD	
		**********	
		< CONNECTOR >	
CN201	1-691-742-11	PIN, CONNECTOR (PC BOARD) 4P	
		< PHOTO REFLECTOR >	
PH201	8-719-988-14	PHOTO REFLECTOR PR-11-B	
PH202	8-719-988-14	PHOTO REFLECTOR PR-11-B	
		< TRANSISTOR >	
Q201	8-729-403-07	TRANSISTOR XN1213	
		< RESISTOR >	
R201	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R202	1-216-841-11	METAL CHIP 47K 5% 1/16W	
R203	1-216-190-00	METAL GLAZE 470 5% 1/8W	
**********			
*	1-660-524-12	SENSOR BOARD	
		**********	
		< CAPACITOR >	
C421	1-164-222-11	CERAMIC CHIP 0.22uF	25V
		< CONNECTOR >	
* CN421	1-566-005-11	PIN, CONNECTOR (PC BOARD) 8P	
* CN422	1-566-003-11	PIN, CONNECTOR (PC BOARD) 6P	
* CN423	1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P	
* CN424	1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P	
		< DIODE >	
D421	8-719-988-62	DIODE 1SS355	
		< PHOTO INTERRUPTER >	
PH421	8-729-021-62	PHONE INTERRUPTER SG-211	
		< TRANSISTOR >	
Q421	8-729-902-99	TRANSISTOR DTC114TK	
		< RESISTOR >	
R421	1-216-186-00	METAL GLAZE 330 5% 1/8W	
R422	1-216-186-00	METAL GLAZE 330 5% 1/8W	
R423	1-216-049-11	METAL GLAZE 1K 5% 1/10W	
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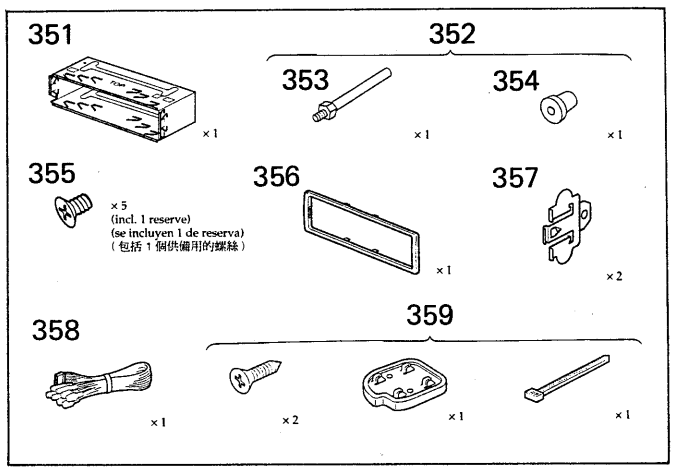
Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
6	1-777-180-11	CORD (WITH CONNECTOR)	
13	1-778-182-11	SOCKET, CONNECTOR 18P	
ANT1	1-751-721-21	CORD (WITH CONNECTOR) (ANT)	
CNP903	1-777-163-41	CORD (WITH CONNECTOR) (LINE IN/OUT)	
F901	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
HP901	1-500-043-21	HEAD, MAGNETIC (PLAYBACK)	
M301	X-3362-826-1	MOTOR ASSY (LOADING)	
M302	X-3344-136-4	MOTOR ASSY, CAPSTAN	
M801	X-3372-497-1	MOTOR ASSY (OPEN/CLOSE)	
S901	1-572-397-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	
S902	1-572-765-11	SWITCH, MICRO (CASSETTE)	
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-559-61	REMOTE COMMANDER (RM-X42)	
	1-473-067-31	REMOTE COMMANDER (RM-X2S) (XR-C800)	
	1-473-067-51	REMOTE COMMANDER (RM-X2S) (XR-C800W)	
	3-355-210-11	COVER (2), PIN JACK	
	3-370-129-01	CASE	
	3-858-300-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE)	
	3-858-301-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, CHINESE)	
	9-939-081-01	LID, BATTERY CASE (RM-X42)	
		**********	
		HARDWARE LIST	
		**********	
#1	7-621-773-95	SCREW +PTT 2.6X6 (S)	
#2	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT	
#3	7-627-852-38	SCREW, PRECISION +P 1.7X1.8TYPE3	
#4	7-628-253-00	SCREW +PS 2X4	
#5	7-624-102-04	STOP RING 1.5, TYPE -E	
#6	7-621-255-65	SCREW +P 2X10	
#7	7-624-104-04	STOP RING 2.0, TYPE -E	
#8	7-627-554-07	SCREW, PRECISION +P 2X2.2	
#9	7-627-850-18	SCREW, PRECISION +P 1.4X2.5	
#10	7-627-850-67	SCREW, PRECISION +P 1.4X4	
#11	7-627-553-28	SCREW, PRECISION +P 2X2.5	
#12	7-627-554-37	SCREW, PRECISION +P 2X1.8 TYPE1	
#13	7-627-553-68	SCREW, PRECISION +P 2X6	
#14	7-621-773-86	SCREW +PTT 2.6X4 (S)	
#15	7-621-770-67	SCREW +PTT 2.6X6 (S)	

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
351	3-916-161-42	FRAME, FITTING	
352	X-3366-405-1	SCREW ASSY (EXP), FITTING	
353	3-386-828-01	SCREW, FITTING	
354	3-349-410-01	BUSHING	
355	3-934-325-01	SCREW, +K (5X8) TAPPING	
356	3-934-788-01	FRAME, ORNAMENTAL (XR-C800)	
356	3-934-788-21	FRAME, ORNAMENTAL (XR-C800W)	
357	3-934-787-01	SPRING, FITTING	
358	1-776-207-11	CORD (WITH CONNECTOR)	
359	X-3369-817-1	BRACKET ASSY	



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XR-C800/C800W

SONY

E Model

SERVICE MANUAL

CORRECTION-1

Correct your service manual as shown below.

☛ : indicates corrected portion.

Page	INCORRECT				CORRECT		
61	Ref. No.	Part No.	Description	Remark	Part No.	Description	Remark
	15	3-934-756-01	ARM (LOCK)		3-934-757-01	HOLDER (LOCK) ☛	
	17	3-934-757-01	HOLDER (LOCK)		3-934-756-01	ARM (LOCK) ☛	

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